(B+ Grade in 2nd Cycle of Accreditation)

3rd Cycle of Re-Accreditation

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E-Mail: gnc@gncsirsa.com

Self Study Report

Criteria - I

Course Structure & Assessments

Graduation

SCHEME OF B.A. (Hons.) ECONOMICS (SEMESTER SYSTEM) W.E F. 2019-20 IN PHASED MANNER

Chaudhary Devi lal University, Sirsa

Bachelor of Arts (Hons.) Economics

(Semester-wise Syllabus, 2019-20 Onwards)

Chaudhary Devilal University, Sirsa

Scheme for Theory Based Subjects

Guidelines for Scheme of examination of B.A. (Hons.) ECONOMICS

(under semester system)

The Scheme of Examination of undergraduate (UG) Courses under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under 80: 20 (external: internal) for theory based courses. Pass percentage will be ……..

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 20 marks based on the entire syllabus. It will comprise of five short answer type questions of four marks each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) up to four units depending on the subject). All remaining questions shall carry equal marks.
Scheme: 80:20 (external: internal)
1st question=20 marks (5 short answer type questions of four marks each)
Rest four questions: 15 marks each i.e. 4 x 15=60
Total = (20+60) + 20 = 100 marks

Components of Internal Assessment (Breakdown of 20 marks)	
(a)	Class Test: 5 marks
(b)	Assignment: 10 marks (Two Assignments 5 marks each)
(c)	Attendance: 5 marks*

*Weightage of 5 marks for **Attendance** component out of 20 marks for Internal Assessment shall be available only to those students who attend **75% and more** of classroom lectures. The break-up of marks for **attendance component** for theory papers shall be as under:

(a) 75% and above up to 80: 2 marks

(b) Above 80% up to 85%: 3 mark

(c) Above 85% up to 90%: 4 marks

(d) Above 90%: 5 marks

SCHEME OF B.A. (Hons) ECONOMICS (SEMESTER SYSTEM) W.E F. 2018-19 IN PHASED MANNER

B.A. Economics (Hons.)-1st Year (Semester- I)	
ECO-C1	Economics Core Course 1: Microeconomics-I
ECO-C2	Economics Core Course 2: Macro Economics-I
ENG-101	English
EVS- 01	Environment Studies (Common with B.A. General)
Comp-101	Compulsory computer Common with B.A. General (only Qualifying)
GE-l*	Generic Elective offered by other Department other than language
B.A. Economics (Hons.)-1st Year (Semester-II)	
ECO-C3	Economics Core Course 3: Microeconomics –II
ECO-C4	Economics Core Course 4: Macro Economics-II
ENG-102	English
Comp-101	Compulsory computer Common with B.A. General (only Qualifying)
GE-2*	Generic Elective offered by other Department other than language
B.A. Economics (Hons.)-2nd Year (Semester-III)	
ECO-C5	Economics Core Course 5: public Economics-I
ECO-C6	Economics Core Course 6: Development Economics-I
ECO-C7	Economics Core Course 7: Statistical Methods for Economists-I
ECO-C8	Economics Core Course 8: History of Economic Thought-I
EVS- 02	Environment Studies (Common with B.A. General)
GE-3*	Generic Elective offered by other Department other than language
B.A. Economics (Hons.)-2nd Year (Semester-IV)	
ECO-C9	Economics Core Course 9: Public Economics- II
ECO-C10	Economics Core Course 10: Development Economics-II
ECO-C11	Economics Core Course 11: Statistical Methods for Economists-II
ECO-C12	Economics Core Course 12: Haryana Economy
GE-4*	Generic Elective offered by other Department other than language
B.A. Economics (Hons.)-3rd Year (Semester-V)	
ECO-C13	Economics Core Course 13: Economic Development and Policy in India-I
ECO-C14	Economics Core Course 14: Mathematics for Economists
Required to opt any two papers from Discipline Specific Elective (DSE) from the Group-1:	
Group-1 (Discipline specific Elective (DSE) Courses)	ECO-DSEG11 : International Economics
	ECO-DSEG12 : Industrial Economics
	ECO-DSEG13 : Computer Application in Economics
	ECO-DSEG14 : Rural Development
	ECO-DSEG15 : Money And Banking
EVS-03	Environment Studies (Common with B.A. General)
GE-5*	Generic Elective offered by other Department other than language
B.A. Economics (Hons.)-3rd Year (Semester-VI)	
ECO-C15	Economics Core Course 15: Economic Development and Policy in India-II
ECO-C16	Economics Core Course 16: Introductory Econometrics
Required to opt any two papers from Discipline Specific Elective (DSE) from the Group-2:	
Group-2 (Discipline	ECO-DSEG21: Financial economics
	ECO-DSEG22: Environmental Economics

specific Elective (DSE) Courses)	ECO-DSEG23: Agricultural Economics
	ECO-DSEG24: **:** Economics of Health and Education
	ECO-DSEG25 : Economics Infrastructure
GE-6*	Generic Elective offered by other Department other than language

**** Under General elective papers (GE1-6), the candidate will opt the papers in each semester from the same discipline as once opted in first semester. The opted papers will belong to discipline other than Economics and language from B.A. pass course. The offering/availability of these options will be decided by the college.***

B.A. ECONOMICS (HONS) 1st Year
SEMSTER-1
ECO-C1: MICRO ECONOMICS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

In this paper, student is expected to understand the behaviour of an economic agent, namely, a consumer and a producer. In addition, the principles of commodity pricing are also included.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

Introduction and basic concepts: nature and scope of micro economics, basic economic problem - choice and scarcity, methodology of economics -inductive and deductive methods, positive vs. Normative economics, static and dynamic analysis, partial vs. General equilibrium analysis.

UNIT –II

Demand analysis: law of demand, demand of a firm and market; elasticity of demand - price, cross and income elasticity of demand - measurement of price elasticity of demand; consumer behaviour: theories of demand; cardinal utility approach; indifference curve, consumer's equilibrium. Price, income and substitution effects.

UNIT-III

Theory of production and Supply: production function - the law of variable proportions; returns to scale-isoquant; least cost combination and producer's equilibrium.
Supply: Concept & determinants of supply, law of supply and elasticity of supply.

UNIT-IV

Theory of Costs and Revenue: Concepts and types of costs, traditional and modern theories of costs, Concepts and types of revenue and their relationships, Break even analysis.

Suggested Readings:

Koutsoyiannis, A: (1979*): Modern Microeconomics* , (2nd ed.), Macmillan Press, London.
Sen., A (1999): *Microeconomics: Theory and Applications*, Oxford University Press, New Delhi.

N.G. Mankiw (latest edition), *Economics: Principles and Application,* Cengage Learning Printed in India**.**

Varian, H (latest edition): *Microeconomic Analysis*, W.W. Norton, New York.

William J. Baumol and Alan S. Blinde :*Micro Economics: Principles of Policy* , 10th Edition; South-Western College Pub; (June 21, 2005)

Bain, J (1958): *Barriers to New Competition*, Harvard University Press, Harvard

Henderson, J.M. and Quandt (latest edition): *Micro Economic Theory: A Mathematical Approach*, McGraw Hill, And New Delhi.

B.A. ECONOMICS (HONS) 1st Year
SEMSTER-I
ECO-C2: MACRO ECONOMICS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

As a foundation course, in this paper, student is expected to understand the behaviour of an economy, namely, circular flow. In addition, the concept & measurement of national income as also the problems of consumption & investment has been included.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Introduction: nature and scope of macroeconomics, difference between micro and macroeconomics and importance of macroeconomics. National income: concepts, measurement and limitations of national income statistics, circular flow of income in two, three and four sector economy.

Unit-II

Determination of income and employment: classical theory of income and employment determination, Keynes objections to classical theory, Keynesian theory of income and employment determination.

Unit-III

Consumption: consumption function, technical attributes of consumption, Keynesian psychological law of consumption and its implications. Income – consumption relationship: absolute and relative income hypothesis and permanent income hypothesis.

Unit-IV

Investment function: types of investment, determination of level of investment, marginal efficiency of capital (MEC).theories of investment: Classical and Keynesian theory of investment (marginal efficiency of investment), saving –investment equality.

Suggested Readings:

Lipsey R.G. and K.A. Christal (latest edition), *Principles of Economics*, 9th Ed., Oxford University Press.

Ackley, G (1978), *Macroeconomics: Theory and Policy*, Macmillan, New York.

Branson, W. A. (1989), *Macroeconomics: Theory and Policy*, 3rd Edition, Harper and Harper and Row, New York.

Shapiro, E (1996), *Macroeconomics: Analysis*, Galgotia Publication, New Delhi.

Stiglitz J. E. and Carl E. Walsh (2002), *Principles of Macroeconomics*, W.W. Norton and

Company, New York.

Paul Samuelson and Nordhaus: (2005), Economics (18 th Ed.) Tata Hill Publishing Company, New York.

Mankiw N. Gregory: (2007), *Principles of Economics*, Thomson, Indian Reprint.

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B.A. ECONOMICS (HONS) 1st Year
SEMSTER-1
ENG 101: ENGLISH (Compulsory)

External Marks: 80
Internal Assessment: 20
Time Allowed: 3 Hours

Note:- There will be five questions in all. First question will consist of ten short answer type questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry 15 marks each.

Text Prescribed — ENG 101: Literature and Language-I
Edited by: Loveleen Mohan, Randeep Rana and Jaibir Singh Hooda
Publishers : Orient Blackswan

SCHEME OF QUESTION PAPER

Note: The question paper will carry a maximum of 80 marks. The paper will have five questions as per details given below.

Q 1. This question is compulsory and consist ten questions of two marks each. 20 Marks

Q 2. This question will be designed to assess the understanding of the text by the students. The students shall answer any two out of the given four questions in about 150 words each). 15 Marks

Q 3. (a) This question will be based on References to the Context. (one out of two) 5 Marks

(b) This question will be based on vocabulary from the exercises following the chapters. The students shall attempt questions on vocabulary as directed. (e.g. framing sentences of their own or giving various forms of the given words, synonyms, antonyms, one word substitutes). The students shall answer any ten out of the given fifteen words. 10 Marks

Q.4. (a) This question will be based on phonetic transcription given in the chapters in the text book. The students shall transcribe eight words out of the given twelve.
(For blind candidates only):- Word meaning of the words in glossary given at the end of the chapters. Students will be required to give meaning of any eight words out of given twelve words. 8 Marks
(b) The students shall write one paragraph (in about 200 words) on any one of the four topics given. 7 Marks

Q 5. (a) This part will be based on the use of tenses. The students shall attempt seven out of ten sentences. 7 Marks
(b) This part will be based on parts of the speech. The students shall attempt eight out of twelve sentences. 8 Marks

Suggested Reading:

1. Azar, Betty, *Longman Fundamentals English Grammar* (Longman, 2003).
2. Hornby, A. S., *Oxford Advanced Learner's Dictionary* (Oxford University Press, 2015).
3. Lester, Mark, *English Grammar Drills* (McGraw-Hill, 2009).
4. Murphy, Raymond, *English grammar in use: a self-study guide* (Cambridge University Press, 1994).

5. Nesfield, J. C. *English Grammar Composition and Usage* (2001).
6. Nesfield, J. C. *Modern English Grammar* (MacMillan).
7. Swan, Michael, *Practical English Usage* (Oxford, 2013).
8. *The New Roget's Thesaurus in Dictionary Form* (Penguin).
9. Thomson, A. J., *A Practical English Grammar* (Oxford University Press, 1986).
10. Wood, F. T., *A Remedial English Grammar for Foreign Students* (MacMillan, 2015).

B.A. ECONOMICS (HONS) 1st Year
SEMSTER-II
ECO-C3: MICRO ECONOMICS-II

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

In this paper, student is expected to understand the behaviour of an economic agent, namely, a consumer and a producer. In addition, the principles of commodity pricing are also included.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

Price and output determination: prefect competition: features, price determination in short and long run equilibrium of firm and industry; monopoly: price and output determination, price discrimination.

UNIT-II

Price and output determination: monopolistic competition – features, equilibrium of the firm with product differentiation and selling cost, Concept of excess capacity. Monopsony: Features, price determinations and comparison with perfect competition. Bilateral monopoly: Features, price determinations.

UNIT-III

Price and output determination: oligopoly: Characteristics, emergence of Oligopoly, Models of non-collusive Oligopoly: cournot, Betrand, Edgeworth, Stackelberg, Kink demand curve and price rigidity, collusive: price leadership, cartels.

UNIT-IV

Theory of factor pricing: Marginal Productivity theory of distribution, Product Exhaustion theorem, Backward Bending Supply Curve of Labour; Ricardian and modern theories of rent, Concept of Quasi –Rent, Interest: Classical, Neo-classical and Keysian theories, Theories of profit.

Suggested Readings:

Kreps, David M. (1990*), A Course in Microeconomic Theory*, Princeton University Press, Princeton Koutsoyiannis, A. (1979), *Modern Microeconomics*, (2nd Edition), Macmillan Press, London.

Layard, P.R.G. and A.W. Walters (1978), *Microeconomic Theory*, McGraw Hill, New York.

Sen, A. (1999), *Microeconomics: Theory and Applications*, Oxford University Press, New Delhi.

Varian, H. (2000), *Microeconomic Analysis*, W.W. Norton, New York.

Manikiw Gregory N (1968): *Principle Of Economics*, 3 rd Edition, Thomson; 3 rd Indian Reprint(2007)

William J. Baumol and Alan S. Blinde :*Micro Economics: Principles of Policy* , 10th Edition; South-Western College Pub; (June 21, 2005)

B.A. ECONOMICS (HONS) 1st Year
SEMSTER-II
ECO-C4: MACRO ECONOMICS-II

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

As an advanced course, in this paper, student is expected to understand the behaviour of a business cycle, money and product market equilibrium in an economy.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Income Generation and Multiplier: Concepts, Employment multiplier, Investment Multiplier: comparative static and dynamic process. Tax Multiplier, Government Expenditure multiplier and Transfer expenditure multiplier. Acceleration Principle and concept of super multiplier.

Unit II

Money and Credit: Concepts, Functions and significance of money, Quantity theory of money; Fisher and Cambridge equations.

Process of Credit Creation and Credit Control.

Unit-III

Determination of general price level: Inflation: Meaning, types, causes, effects and remedial measures of inflation, theories of inflation: cost push and demand pull inflation, Phillips curve analysis of inflation and unemployment.

Unit-IV

Trade cycles: meanings, types, phases and control of trade cycles, Theories of trade cycles: Cob-web, Kaldor, Hicks and Samuelson.

Suggested Readings:

Lipsey R.G. and K.A. Christal (latest edition), *Principles of Economics*, 9th Ed., Oxford University Press.

Ackley, G (1978), *Macroeconomics: Theory and Policy*, Macmillan, New York.

Branson, W. A. (1989), *Macroeconomics: Theory and Policy*, 3rd Edition, Harper and Harper and Row, New York.

Shapiro, E (1996), *Macroeconomics: Analysis*, Galgotia Publication, New Delhi.

Stiglitz J. E. and Carl E. Walsh (2002), *Principles of Macroeconomics*, W.W. Norton and

Company, New York.

Paul Samuelson and Nordhaus: (2005), Economics (18 th Ed.) Tata Hill Publishing Company, New York.

Mankiw N. Gregory: (2007), *Principles of Economics*, Thomson, Indian Reprint.

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-11

ENG 102: ENGLISH (Compulsory)

External Marks: 80
Internal Assessment: 20
Time Allowed: 3 Hours

Note:- There will be five questions in all. First question will consist of ten short answer type questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry 15 marks each.

Text Prescribed — ENG 102: Literature and Language-II
Edited by: Jaibir Singh Hooda, Randeep Rana and Loveleen Mohan.
Publishers : Orient Blackswan

SCHEME OF QUESTION PAPER

Note: The question paper will carry a maximum of 80 marks. The paper will have five questions as per details given below.

Q 1. This question is compulsory and consist ten short answer type questions of two marks each. 20 Marks

Q 2. This question will be designed to assess the understanding of the text by the students. The students shall answer any three out of the given five questions in about 150 words each). 15 Marks

Q 3. (a) Do as directed (Topics based on the following grammar topics covered in Semester-I : Articles, Prepositions, Adverbs, Adjectives & Conjunctions). Students will be required to attempt any Eight out of the given twelve. 8 Marks

(b) Students will be required to give antonyms as well as synonyms of any seven out of the given ten words. 7 Marks

Q 4. (a) Transcription of one/two syllabic words only from the words given in the exercises at the end of the chapters. Students will be required to transcribe any seven out of the given ten words.
(For blind candidates only):- Word meaning of the words in glossary given at the end of the chapters. Students will be required to give meaning of any seven words out of given ten words. 7 Mark
(b) Composition: Students will be required to write a paragraph in about 200 words on any one of the four given topics of general nature. 8 Marks

Q 5. This question will be based on the grammar exercises given in the text book. The sentences will not necessarily be the same as given in exercises. Students will be required to attempt any fifteen out of the given twenty. 15 Marks

Suggested Reading/Reference Books:

1. Azar, Betty, *Longman Fundamentals English Grammar* (Longman, 2003).
2. Hornby, A. S., *Oxford Advanced Learner's Dictionary* (Oxford University Press, 2015).
3. Lester, Mark, *English Grammar Drills* (McGraw-Hill, 2009).

4. Murphy, Raymond, *English grammar in use: a self-study guide* (Cambridge University Press, 1994).
5. Nesfield, J. C. *English Grammar Composition and Usage* (2001).
6. Nesfield, J. C. *Modern English Grammar* (MacMillan).
7. Swan, Michael, *Practical English Usage* (Oxford, 2013).
8. *The New Roget's Thesaurus in Dictionary Form* (Penguin).
9. Thomson, A. J., *A Practical English Grammar* (Oxford University Press, 1986).
10. Wood, F. T., *A Remedial English Grammar for Foreign Students* (MacMillan, 2015).

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-III
ECO –C5: PUBLIC ECONOMICS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization. Inherently, this study involves a formal analysis of government taxation and expenditures. The subject encompasses a host of topics including public goods, market failures and externalities. The paper is divided into two sections, one dealing with the theory of public economics and the other with the Indian public finances.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT I Public finance---meaning, scope and subject matter, public finance vs. Private finance, Role of public finance in national economy; Role of state intervention in a developing economy; Major fiscal Functions of Government: Principle of maximum social advantage;

Unit II

Market failure and rationale for government intervention; Imperfections and market failure; Externalities--- nature, types and internalization of externalities: corrective taxes and subsidies, Provision of Public Goods.

UNIT III

Public revenue: tax and non-tax revenue, direct and indirect taxes, effects of tax on production, distribution and economic activities. Canons of Taxation, Features of a Good Tax system, Impact, Incidence and Shifting of Taxation.

Unit IV

Indian public finance: features of Indian tax system, tax revenues of the central and state governments, direct and indirect taxes levied by the state and Centre, changing tax structure of India, tax reforms since1991, VAT and GST.

Suggested Readings

Musgrave, R.A, *Theory of Public Finance*, McGraw Hil
Atkinson and Stiglitz. *Lectures on Public Economics*,
Ghosh Ambar and Ghosh Chandana *Economics of the Public Sector*, PHI
Herber B. P. *Modern Public Finance*

Due, John F and Friedlander, *Government Finance*.
Goode R. *Government Finance in Developing Countries*. Tata McGraw Hill.
Houghton J. M. *The Public Finance: Selected Reading*, Pengui
Mathew T. *Economics of Public Expenditure*, Vora

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-III
ECO-C6: DEVELOPMENT ECONOMICS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

As a foundation course, in this paper, student is expected to understand the growth & development of an economy or country. In addition, the concept & theories of under developed countries as also the problems of planning has been included.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Basic Concepts of Economic Development: Economic Growth and Development, Concept of underdevelopment and basic characteristics; Determinants and Measurement indicators (PQLI and HDI) of economic development: sustainable economic development.

Unit-II

Theories of Economic Development: Adam Smith, Ricardo, Karl Marx and Schumpeter.

Unit-III

Development Approaches to Development: Vicious Circle of Poverty, Lewis dual economy model, Leibenstein critical minimum effort theory, balanced vs. unbalanced growth theories.

Unit-IV

Economic Planning and Policy: Development planning: rationale, Strategies and objectives of planning; Role of state and Capital formation in economic development. Investment criteria.

Suggested Readings:

Thirlwall, A. P.(2003),*Growth and Development*, Seventh edition, Palgrave Macmillan, New York. Todaro, Michael P. and Stephen C Smith (2004),*Economic Development*, Pearson Education, (Singapore) Pvt. Ltd., Indian Branch, Delhi.

Ray, Debraj(2004),*Development Economics*, Seventh impression, Oxford University Press, New Delhi.

Meier, Gerald M. and James E. Rauch (2000), *Leading Issues in Economic Development*,Oxford University Press, New York.

Ghatak, Subrata (2003), *Indian Reprint 2007: Introduction to Development Economics*, Rout ledge, London & New York.

Rist, Gilbert (2002), *The History of Development*, Academic Foundation, New Delhi

Ghosh, Arun (1996), *Paradigms of Economic Development*, IIAS, Shimla.

Fukuda-Parr Sakiko and Kumar Shiva, A K (2003), *Readings in Human Development*, Oxford University Press

Sen, A K (ed.) (1970), *Growth Economics*, Penguin Books

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-III
ECO-C7: STATISTICAL METHODS FOR ECONOMICS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This is the first of a two-part sequence on statistical methods. It begins with some basic concepts and terminology that are fundamental to statistical analysis and inference. It then develops the notion of probability, followed by probability distributions of discrete and continuous random variables. The semester concludes with a discussion of joint distributions.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit I

Introduction: Meaning, Features, Scope and limitation of statistics. Types and Collection of Data, Tabulation and classification of data: discrete and continuous one – way and two – way frequency distribution. Diagrammatic and graphic presentation of data.

Unit II

Measures of central tendency: Arithmetic mean, Geometric mean, Harmonic mean, median, mode and Partition values. Properties merits and demerits of different Measures of central tendency. Properties of a Good Average.

Unit III

Dispersion: meaning, importance, absolute and relative measures of dispersion. Methods of Measuring Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of variation and Lorenz Curve.

Unit IV

Skewness: Meaning of Skewness, Skewness and Frequency Distribution, Difference between Skewness and Dispersion, Measures of Skewness: Karl Pearson, Bowley and Kelly methods. Moments and Measures of Kurtosis.

Suggested Readings:

Jay L. Devore, *Probability and Statistics for Engineers*, Cengage Learning, 2010.

John E. Freund, *Mathematical Statistics*, Prentice Hall, 1992.
Richard J. Larsen and Morris L. Marx, *An Introduction to Mathematical Statistics and its Applications*, Prentice Hall, 2011.
A.L. Nagar and R.K. Das (2006), *Basic Statistics*, Second Edition Oxford University Press, New Delhi.

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-III
ECO-C8: History of Economic Thoughts

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description:

The evolution of economic ideas in each instance was as much a response to immediate economic problems and policy issues as much as it was a self-conscious attempt to refine our understanding of economic phenomenon. This course would enable the student to understand how contemporary economics came to be what it is.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Contents:

Unit 1

Early period economic thought: Plato and Aristotle — Doctrines of Just cost and Just price, Economic thoughts of Kautilya, Valluvar;

Modern economic ideas: Naoroji, Economic ideas of Gandhi: Village, Swadeshi, J.K. Mehta: Wantlessness.

Unit -II:

Mercantilism: Rise and main characteristics of Mercantilism; Thomas Mun — Physicracy: primacy of agriculture, taxation, Locke and Hume. Quesney's Tableau Economique

Unit -III

Classical Period: Adam Smith — division of labour, theory of value, capital accumulation, distribution, views on trade, economic progress; Thomas R. Malthus — theory of population, theory of gluts; Karl Marx - dynamics of social change, theory of value, surplus value, profit, and crisis of capitalism; Economic ideas of J.B. Say.

Unit –IV

Marshall as a great synthesizer: role of time in price determination, Pigou: Welfare economics; Schumpeter: role of entrepreneur and innovations. Keynesian Ideas: the aggregate economy, underemployment equilibrium.

Suggested Readings:

Blackhouse, R. (1985*), A History of Modern Economic Analysis*, Basil Blackwell, Oxford.

Ganguli, B.N. (1977), *Indian Economic Thought: A 19th Century Perspective*, Tata McGraw Hill, New Delhi.

Gide, C. and G. Rist (1956), *A History of Economic Doctrines*, (2nd Edition), George Harrop & Co., London. Economics 42

Grey, A. and A.E. Thomson (1980), *The Development of Economic Doctrine*, (2nd Edition), Longman Group, London.

Kautilya (1992), *The Arthashastra*, Edited, Rearranged, Translated and Introduced by L.N. Rangaranjan, Penguin Books, New Delhi.

Roll, E. (1973), *A History of Economic Thought*, Faber, London.

Schumpeter, J.A. (1954), *History of Economic Analysis*, Oxford University Press, New York.

Seshadri, G.B. (1997), *Economic Doctrines*, B.R. Publishing Corporation, Delhi.

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-IV
ECO –C9: PUBLIC ECONOMICS-II

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization. Inherently, this study involves a formal analysis of government taxation and expenditures. The subject encompasses a host of topics including public goods, market failures and externalities. The paper is divided into two sections, one dealing with the theory of public economics and the other with the Indian public finances.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Public Expenditure − Meaning, Public and private Expenditure, Classification and role of public expenditure; Causes of increase in Public expenditure,Wagner's law of increasing state activities; Wiseman-Peacock hypothesis; canons and effects of public expenditure.

Unit-II

Budgeting-Meaning and purpose of budget; Types or classification of Budget, Budget as an instrument of economic Growth; Arguments in favour and against Balanced budget, Budget making process in India; Measures of budget deficit and their significance; Balanced budget multiplier.

Unit-III

Public debts: Meaning, objectives and sources of public debt; Public and Private debt, classification and effects of public debt; burden of public debt, Burden Controversy; redemption of public debt.

Unit-IV

Public enterprises – Meaning, objectives, Features and forms of organization; Role of public enterprises in a developing Economy, Fiscal sector reforms in India; Division of functions and resources between centre and state in India, Deficit Financing in India- Objectives and Justification.

Suggested Readings

Musgrave, R.A, *Theory of Public Finance*, McGraw Hil
Atkinson and Stiglitz. *Lectures on Public Economics*,
Ghosh Ambar and Ghosh Chandana *Economics of the Public Sector*, PHI
Herber B. P. *Modern Public Finance*
Due, John F and Friedlander, *Government Finance*.
Goode R. *Government Finance in Developing Countries*. Tata McGraw Hill.
Houghton J. M. *The Public Finance: Selected Reading*, Pengui
Mathew T. *Economics of Public Expenditure*, Vora

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-IV
ECO-C10: DEVELOPMENT ECONOMICS-II

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This is the first part of a two-part course on economic development. The course begins with a discussion of alternative conceptions of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I
Conceptions of development: alternative measures of development, documenting the international variation in these measures, comparing development trajectories across nations and within them.

Unit-II
Growth models: the Harrod-Domar model, the Solow model and its variants, endogenous growth models and evidence on the determinants of growth.

Unit-III
Poverty and inequality: definitions, measures and mechanisms inequality axioms; a comparison of commonly used inequality measures; connections between inequality and development; poverty measurement; characteristics of the poor; mechanisms that generate poverty traps and path dependence of growth processes.

Unit-IV
Political institutions and the functioning of the state: the determinants of democracy; alternative institutional trajectories and their relationship with economic performance; within-country differences in the functioning of state institutions; state ownership and regulation; government failures and corruption.

Suggested Readings

Thirlwall, A. P.(2003),*Growth and Development*, Seventh edition, Palgrave Macmillan, New York.
Todaro, Michael P. and Stephen C Smith (2004),*Economic Development*, Pearson Education, (Singapore) Pvt. Ltd., Indian Branch, Delhi.
Meier, Gerald M. and James E. Rauch (2000), *Leading Issues in Economic Development,* Oxford University Press, New York.
Debraj Ray, *Development Economics,* Oxford University Press, 2009.
Partha Dasgupta, *Economics: A Very Short Introduction,* Oxford University Press, 2007. Abhijit Banerjee, Roland Benabou and Dilip Mookerjee, *Understanding Poverty,* Oxford University Press, 2006.
Kaushik Basu, 2012, editor, *The New Oxford Companion to Economics in India,* Oxford University Press.
Amartya Sen, *Development as Freedom,* Oxford University Press, 2000.
Daron Acemoglu and James Robinson, *Economic Origins of Dictatorship and Democracy,* Cambridge University Press, 2006.
Robert Putnam, *Making Democracy Work: Civic Traditions in Modern Italy*, Princeton University Press, 1994.

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-IV
ECO-C11: Statistical Methods for Economics-II

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This is the second course in the two part sequence on statistical methods. It begins with a discussion on sampling techniques used to collect survey data. It introduces the notion of sampling distributions that act as a bridge between probability theory and statistical inference. It then covers topics in inference that include point estimation, statistical intervals and hypothesis testing. It concludes with a discussion of the simple linear regression model.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Correlation and regression analysis: Simple correlation, Pearson, spearman's correlation coefficients. Partial and Multiple correlation analysis. Simple and multiple regression analysis, interpretation of correlation and regression coefficients and their properties.

Unit-II

Basic concepts and definitions of probabilities: Laws of Addition and multiplication; Conditional probability; Bay's Theorem; Basic concepts of sampling-random and non - random sampling. Normal distribution and its properties.

Unit-III

Index Numbers: Meaning, types and uses of index numbers, Methods of constructing index numbers (Laspeyre, Paasche, Fisher, Marshall and Edgeworth) Test of adequacy of index number formulae. Base Conversion, Base Shifting, splicing.

Unit-IV

Time Series Analysis: Meaning, utility and components of time series; Decomposition of time series; Methods of measuring trends(Semi- Average, Moving Average and Least square methods)

Suggested Readings:

Jay L. Devore, *Probability and Statistics for Engineers*, Cengage Learning, 2010.

William G. Cochran, *Sampling Techniques,* John Wiley, 2007.

Richard J. Larsen and Morris L. Marx, *An Introduction to Mathematical Statistics and its Applications,* Prentice Hall, 2011.

Gupta S.C. and V.K. Kapoor, *Fundamentals of Applied Statistics,* S. Chand and Sons New Delhi.

Speigal, M. R., *Theory and Problems of Statistics*, McGraw Hill Book, London

B.A. ECONOMICS (HONS) 2nd Year
SEMSTER-IV

ECO-C12: Haryana Economy

Maximum Marks: 100 Internal Assessments: 20 External Assessment: 80
Time Allowed: 3 Hours

Course Description : To understand the dynamics of regional development. The issues are discussed with reference to local economy of Haryana to develop a local context of economic issues.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Contents

Unit 1

Regional Economics- Concept, Scope and framework; Regional economic problems; Different Approaches to Regional Economic Analysis; Role of transport costs in location Decisions, Weber and Isard's Theories.

Unit 2

Structural Changes in Haryana Economy- Role of Agricultural in Haryana, Growth & productivity of Agriculture in Haryana, Green Revolution; role, performance & implications; Agricultural diversification, rationale, constraints and prospectus; agriculture credit & marketing, Soil degradation, Irrigation and water management, WTO and Haryana Agriculture.

Unit 3

Industry in Haryana: Industrial development – Pattern, performance, constraints & challenges; Small–scale industry role, problems & future prospects; State & industrial development, HSIIDC, Development of transport and banking in Haryana, Regional inequality.

Unit 4

Public Finances of Haryana- Sources of revenue and heads of expenditure; Problems of resource mobilization in Haryana, State Public sector Undertakings, off budget liabilities.

Infrastructure and Human Development- Education, Health, Housing, State Human development Index.

Readings: Hoover, F.M. (1984) An Introduction to Regional Economics, UCEB.
Richardson, H.W. (1972) Regional Economics, Weidenfeld and Nicolson, London.
Statistical Abstract and Economics Survey of Haryana various years.

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-V
ECO-C13: Economic Development and Policy in India-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points. Given the rapid changes taking place in India, the reading list will have to be updated annually

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit I
Economic development since independence: major features of Indian economy at independence and characteristics of economic under development of India (with reference to colonial rule of India); trend in national income and per capita income; sectoral composition (output and employment) - primary, secondary and tertiary. Development under different policy regimes—goals, constraints, institutions and policy framework;

Unit II
Population and human development: broad demographic features — population size and growth rates, sex and age composition, occupational distribution. Density of population, urbanisation and economic growth in India. Population growth as a factor of economic development, national population policy, progress of human development in India. Development of education in India, health and family welfare and the development of health infrastructure.

Unit III
Structural change of post independent Indian economy: growth, distribution and trends of national income, sectoral distribution. An assessment of performance—sustainability and regional contrasts; structural change, savings and investment. Trends, measurement and policies in poverty; inequality-measurement, causes and effects, unemployment-types, causes and employment policies in India.

Unit IV.

Indian economy in post reform period: background of Indian economic reforms – new economic policy; redefining India's development strategy; changing role of state and market industrial policy, disinvestment policy and privatization; financial sector reforms including banking reform.

Suggessted Reading:

Jean Dreze and Amartya Sen, Jean Dreze and Amartya Sen, 2013. *An Uncertain Glory: India and its Contradictions*, Princeton University Press.
Pulapre Balakrishnan, 2007, The Recovery of India: Economic Growth in the Nehru Era, *Economic and Political Weekly*, November.
Rakesh Mohan, 2008, Growth Record of Indian Economy: 1950-2008. A Story of Sustained Savings and Investment, *Economic and Political Weekly*, May.
Uma Kapila,2010, India's economic Development since 1947, Academic Foundation,
Himanshu, 2010, Towards New Poverty Lines for India, *Economic and Political Weekly*, January.
Mishra and Puri(2015), *Indian Economy*, Kalyani Pub,New Delhi

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-V
ECO-C14: MATHEMATICAL METHODS FOR ECONOMISTS-I

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description:

This is the first of a compulsory two-course sequence. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT – I

Matrices and determinants: types; transpose, trace, ad joint and inverse of matrices; solution of a system of two and three equations by matrix inverse and Cramer's methods; rank of a matrix; simple application questions. Application of input-output analysis.

UNIT – II

Derivatives: Rules of differentiation and its economic applications. Rules of Partial differentiation and its economic applications. Problem of maxima -minima in single and multivariable function and its economic applications.

UNIT – III

Difference equations – Solution of first and second order difference equations; Applications in trade cycle models; Growth models and lagged market equilibrium models.

UNIT – IV

Linear programming: formulation and solution by graphic method & simplex method.

Suggested Readings:

Chiang, Alpha C (1984): *Fundamental Methods of Mathematical Economics* (3 rd Ed.), McGraw Hill

Weber, Jean E (1976*): Mathematical Analysis Business and Economic Applications*, Harper & Row; 3rd edition .

Yamane, Taro (1972): *Mathematics for Economists,* Prentice-Hall; 2 edition (1968)

Allen, R G D (1983): *Mathematical Analysis for Economists*,Brunton Press (March 15, 2007)

Kooros, A (1965): Elements of Mathematical Economics, Houghton Mifflin; Ist Edition. Bose, D C (1996): *An Introduction to Mathematical Economics*.

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-V
ECO –DSEG11 INTERNATIONAL ECONOMICS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

The course intends to provide a deep understanding about the broad principles and theories, which tend to govern the free flow of trade in goods, services and capital- both short-term and long-term- at the global level. The contents of the paper spread over the different modules, lay stress on the theory and nature of the subject which, in turn, will greatly help them to examine the impact of the trade policies followed both as the national and international levels as also their welfare implications at macro level andthe distribution of gains from trade

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

The pure theory of international trade: theories of absolute advantage, comparative advantage and opportunity costs, H-O theory, factor price equalisation.

UNIT-II

Commercial policy: the theory of tariffs, optimum and effective rate of tariff, inter-relationship between trade, aid and economic development. Theory of economic integration among nations; forms of economic integration and theory of customs union.

UNIT-III

Balance of payments, exchange rate and trade structures: the process of adjustment in the balance of payments. The concept of foreign trade multiplier. Fixed vs. Flexible exchange rates and their relative merits and demerits.

UNIT-IV

International monetary system: imf and international monetary system, present international monetary system, problems of international liquidity. Proposals for international monetary reforms. New international economic order.

Recommended Readings:

Soderston , B. O.(1994): *International Economics,* 2 nd Edition, Macmillan Press, London,

Salvatore, Dominick (latest edition): *International Economics*, John Wiley & Sons.

Krugman P R&ObstifeldMaurice(latestedition): *International Economics – Theory and Policy,* Addison- wesley.

Kindleberger, C.P.(1987): *International Economics*, Richard Irwin, Homes wood, Illinois,Indian Edition

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-V
ECO –DSEG12 INDUSTRIAL ECONOMICS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Scope and methods of industrial economics; basic concepts of firm, industry and market; organisational forms and alternative motives of the firms; industrial structure and economic development.

Unit-II

Market structure: sellers concentration, product differentiation, conditions of entry and economies of scale, market structure and profitability. Growth of firms : vertical integration, diversification, mergers and innovation; constraints on growth demand, financial and managerial.

Unit-III

Theory of industrial location, contribution of Weber and Sargent Florence, centralized vs. Balanced regional development, industrial concentration and dispersal in India.

Unit-IV

Industrial policy since independence, industrial development under plans and reasons for deceleration of industrial growth, growth of state industrialization in India.

Recommended Readings:

Barthwal, R. R. (2010) : *Industrial Economics : An Introductory Text Book*, New Age International Publisher (P.) Ltd., New Delhi.

Datt , Rudar & Sundharam K. P. M. (2012) : *Indian Economy* , S. Chand & Company.

Devine , P. J. et al. (1974) : *An Introduction of Industrial Economics*, George Allen & Unwin Ltd.,London.

Howe , W. Steward (1978) : *Industrial Economics : An Applied Approach*, The Macmillan Press Ltd. 5. Kuchhal, S. C. (1989) : *Industrial Economy of India* , Allahabad, Chaitanya Publishing House.

Ahluwalia , Ishar Judge (1985) : *Industrial Growth in India : Stagnation Since Mid Sixties*, Oxford University Press, Delhi.

Penrose, E. T. (1995) : *The Theory of Growth of Firm*, Oxford, Basil Blackwell.

Richardson, Harry W. (1969) : *Elements of Regional Economics*, Penguin Education.

Sivayya & Das (1978) : *Indian Industrial Economy*, S. Chand & Co., New Delhi

Smith, David M. (1971) : *Industrial Location : An Economic Geographical Analysis*, John Wiley & Sons Inc.

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-V
ECO- DSEG13: COMPUTER APPLICATION IN ECONOMIC ANALYSIS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This course begins with a discussion basic use of computer to collect survey data. It introduces the notion MS office, networking and statistical software for statistical inference.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Introduction to MS-Word: Meaning, Features of a good word processor, Opening, saving and printing documents files, Editing and formatting of documents, inserting page Numbers and footnotes, Table: Auto Format and Properties, Inserting graphs and diagrams, Introduction to MS Power Point.

Unit-II

Introduction to Spread Sheet Software: Meaning and Applications; Features of MS-Excel. Creation of worksheets; Data entry, formatting, sorting and validation; Importing and exporting of data files, Uses of mathematical, financial and statistical function; Creation of diagrams and graphs.

Units III

Networking of Computer: Intranet, Internet and extranet , LAN, WAN, MAN, Internet Explorer, Search engines, Emails, Computer, document and Internet Security, Antivirus-scanning and updates

Unit-IV

Introduction to SPSS: Creation of data files, assigning names and labels to variables, Data Analysis: Descriptive statistics, Comparing means, Simple Correlation analysis, Simple Regression Analysis, Preparation of graphs and diagrams. An overview of techniques used in research: Univarate, Bivariate and Multivariate Analysis.

Suggested Readings:

Bhattacharjee Dibyojyoti (2010), *Practical Statistics: Using Microsoft Excel*, Asian Books,Asian Books Private Limited, New Deli

George, Darren Mallery Paul (2011), *SPSS for Windows step by step: A simple guide and reference* 15.0, Pearson Education, New Delhi

ITL Eduction Solution Limited (2012), *Introduction to information Technology*, Pearson, NewDelhi (ISBN 978-81-317-6029-1

B.A. ECONOMICS (HONS) 3rd Year

SEMSTER-V
ECO –DSEG14: RURAL DEVELOPMENT

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

The student will be able to understand the concept of Rural Development, Approaches and Strategies, analyse the implementation of major development and welfare programmes, identify the institutions involved in rural development and evaluate the concerns of rural development Information system

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit I:

Introduction: Rural Development: Concept, Elements, Importance and Scope - Approaches: Sectoral, Area Approach, Target Group Approach, Participatory Approach, Integrated Approach - Strategies of Rural Development- Rural Management: Scope and Significance of Rural Management – Economic perspectives of Rural Development: Lack of access to assets, Micro finance, Capital market - Sectoral Issues in Rural development: Agriculture, Industries, Land Reforms

Unit II:

Institutions for Rural Development and Management: Structure, Functions and Role in Rural Development- National level Institutions: Planning Commission, Ministry of Rural Development, Ministry of Panchayati Raj, NIRD, CAPART and NABARD; State Level Institutions: State Planning Board, State Institute of Rural Development and Kerala Institute of Local Administration - District & Other Level Institutions: District Planning Committee; Panchayati Raj Institutions - Community Based Institutions – Scientific inputs and support from the Institutions like ICAR, ISRO, CSIR Institutes, etc.

Unit III:

Rural Development Information System (RDIS): Management Information System - Impact of MIS on organization - RDIS: RD professionals‟ responsibility in phase of RDIS development - RDIS Planning & RDIS Implementation - Emerging Trends in RDIS

Unit IV:

Major Development and Welfare Programmes Mahatma Gandhi National Rural Employment Guarantee Programme (MGNREGS) - Swarnajayanthi Gram Swarojgar Yojana / National Rural Livelihood Mission (NRLM) - Indira Awaas Yojana (IAY) - National Rural Health Mission (NRHM) - Total Sanitation Programme (TSP) - Swajaldhara - Backward Region Grant Fund (BRGF) –Pradhan Mantri Grameen Sadak Yojana (PMGSY) – Integrated Wasteland Development Programme (IWDP) -Provisions of Urban Amenities in Rural Areas (PURA) – PPP/CSR Initiatives in Rural Development

Recommended Readings

Prasad, B.K.(2003), *Rural Development: Concept, Approach and Strategy*, New Delhi: Sarup& Sons. Singh,Katar. (2009). *Rural Development – Principles, Policies and management*, New Delhi: Sage.

Srivastava, Madhuri and Alok Kumar Singh (Eds.) (2008*), Rural development in India: Approaches, strategies, and programmes*, New Delhi: Deep and Deep Publications.

Sundaram, Satya. (2002), *Rural Development* ,Mumbai: Himalaya.

Government of India. (2012), *Greening Rural Development in India*, New Delhi: Ministry of Rural Development and UNDP.

Singh, Katar and RS Pundir. (2000), *Co-operatives and Rural Development in India*, IRMA. India Rural Development Report 2013-14, Hyderabad: Orient Blackswan.

B.A. ECONOMICS (HONS) 3rd Year

SEMSTER-V
ECO –DSEG15: MONEY AND BANKING

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Money and Banking constitute important components towards understanding of economics. A clear understanding of the operations of money and banking and their interaction with the rest of the economy is essential to realize how monetary forces operate through a multitude channels- market, nonmarket, institutes and among others, the state. The operation of financial markets and their regulations are to be studied to appreciate their key-role in an economy, especially after the far reaching banking and financial sector reforms in India and elsewhere. The present course is designed to acquaint the students fully with the changing role of financial institutes in the process of growth and development.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

Definition of money, money and near money assets, supply of money: components, determinants-high powered money and money multiplier, measures of supply of money in India.

UNIT-II

Demand for money: classical theory, Keynes liquidity preference theory, and Friedman's restatement of quantity theory of money central banking: main functions, techniques of monetary management, and monetary policy of Reserve Bank of India.

UNIT-III

Commercial banking: main functions, major developments and reforms in Indian banking system since 1991.Non-banking financial institutions (NBFIS) – role and structure NBFIS in India.

UNIT-IV

International monetary fund (IMF) – its features and role, World Bank: features and role. Asian development bank: features and role.

Suggested Readings:

Diulio A. Eugene (latest Edition): *Theory and Problems of Money and Banking*, International Edition (Schaum's Outline Series)

Gupta, S. B (2004*): Monetary Planning in India*, S. Chand, New Delhi

Khanna, Perminder(2005): *Advanced Study in Money and Policy : Relevance in the Indian Economy*, Atlantic Publishers, New Delhi

Kulkarni, G (1999): *Modern Monetary Theory*, McMillan, New Delhi

Laidler, D. E. W (1977): *The Demand for Money: Theories and Evidence* ,Allied Publishers, New Delhi.

Bofinger Peter (2001): *Monetary Policy: Goals, Institutions, Strategy and Instrument*, Oxford University Press.

Government of India: Economic Survey (various issues)

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-VI
ECO-C15: Economic Development and Policy in India-II

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This course examines sector-specific polices and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indian empirical evidence. In recent past India has launched different programs like Make in India, Skill India etc., the present course is designed to acquaint the students fully with the changing policy environment in the process of growth and development.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit I
Policies and performance in agriculture growth: pre-independent and post-independent agrarian structure, agriculture growth and productivity. Sustainable agricultural growth-concepts and constraints. Institutional set-up of land system and land reforms, green revolution and technological changes. Capital formation in agriculture; food security, agricultural pricing, food procurement and public distribution system.

Unit-II
Policies and performance in industry: structure and composition of industry– issues of concentration, large vs small industry– industrial location. Small scale reservation policy. Trends and patterns of industrial growth. Cottage industries; performance of public sector, privatization, industrial sickness, land acquisition, SEZ and industrialization foreign investment and competition policy, industrial policy, 1956 and1991.trends and performance in the development of service sector.

Unit III
Social and economic reforms(-MGNREGA, Make in India, GST, Digital India, Skill India, Beti Bachao- Beti Padhao Yojana, Swachh Bharat Mission, Startup India)—goals, constraints, and basic idea of policy framework.

Unit IV

Haryana economy-an overview: a macro glance at Haryana economy; social sector in Haryana- education, health, and nutrition. Haryana economy in relation to India and major states in recent decades, major issues in agriculture, forest and water resources, mining, industry and service sector.

Suggestered Reading

Shankar Acharya and Rakesh Mohan,(2011), India's Economy: Performance and Challenges, Oxford India Publication.

Shankar Acharya, Macroeconomic Performance and Policies since 2000, working paper , http://icrier.org/pdf/WorkingPaper225 .

Pulapre Balakrishnan, Ramesh Golait and Pankaj Kumar, 2008, ―Agricultural Growth in India Since 1991, *RBI DEAP Study no. 27*.

B.N. Goldar and S.C. Aggarwal, 2005, ―Trade Liberalisation and Price-Cost Margin in Indian Industries, *The Developing Economics*, September.

Mishra and Puri(2015)-Indian Economy,Kalyani Pub,New Delhi

Haryana Economic Surveys various issues

Haryana Development Reports various issues

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-VI
ECO–C16: INTRODUCTION TO ECONOMETRICS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Application of economic theory needs a reasonable understanding of economic relationship and statistical methods. The econometric theory thus becomes a very powerful tool for understanding of applied economic relationships and for meaningful research in economics. This paper accordingly is devoted to equip the students with basic theory of econometrics and relevant application of the methods.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

Nature and meaning of econometric; difference between mathematical economics, statistics and econometrics; goals of econometrics. Simple linear regression model (two variables): sources of disturbance terms, assumptions, least squares estimators and their properties; Gauss Markov's theorem.

UNIT-II

Testing of hypothesis (simple linear regression model): basic concepts; type-I and type-II errors. Simple and composite hypothesis, t-test and F- test. Estimation of quadratic, semi – log and double log functions; simple and compound rates of growth (applications).

UNIT-III

General linear regression model: definition, assumptions, least – squares estimation. Testing significance of regression coefficients, concepts of R^2 and adjusted R^2. Dummy variables: the dummy variable trap. Interpretation of slope and intercept

UNIT-IV

Problems of Multicollinearity, Autocorrelation and Hetroscedasticity: nature, consequences, tests and remedies (elementary treatment).

Suggested Readings:

Gujarati, Damodar(2007): *Basic Econometrics*, McGraw Hill, New Delhi.

Kelejian and Oats: *Introduction to the Theory of Econometrics*.

Koutsoyiannis, A.: *Theory of Econometrics* (1978), Macmillan.

Intrilligator, M. D.(1978): *Econometric Models and Applications*, Prentice Hall

Kendall, M. G. &A. Sturat (eds.): *Advanced Theory of Statistics*, Vols. I & II, Griffin and Co.,London.

Maddala, G. S.(1977): *Econometrics*, New Delhi, McGraw Hill

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-VI
ECO –DSEG21: FINANCIAL ECONOMICS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This course introduces students to the economics of finance. Some of the basic models used to benchmark valuation of assets and derivatives are studied in detail; these include the CAPM, and the Binomial Option Pricing models.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit I

Investment theory and structure of interest rates: introduction to financial economics, time value of money: future value, present value, future value of an annuity, present value of annuity, present rate of perpetuity. Investment criteria: net present value, benefit cost ratio, internal rate of return, modified internal rate of return.

Unit II

Valuation of bonds and securities: fundamentals of valuation of securities: valuation of bonds and stocks; bond yield, yield to maturity. Equity valuation: dividend discount model, the P/E ratio approach; irrelevance of dividends: Modigliani and Miller hypothesis.

UNIT III

Risk and return: types of risk, historical returns and risk, computing historical returns, average annual returns, variance of returns, measurement of risk and return of an asset, measurement of risk and return of a portfolio, determinants of beta, risk-return trade off.

UNIT IV

Capital Asset Pricing Model: the capital market line; the capital asset pricing model; the beta of an asset and of a portfolio; security market line. Derivative markets: an introduction to financial derivatives- types and uses of derivatives; forward contracts: determination of forward prices, futures contract: theories of future prices- the cost of carry model, the expectation model, capital asset pricing model.

Suggested Reading

L. M. Bhole and J. Mahukud, *Financial Institutions and Markets*, Tata McGraw Hill, 5th edition,2011.

Hull, John C., *Options, Futures and Other Derivatives*, Pearson Education, 6th edition,2005.

David G. Luenberger, *Investment Science*, Oxford University Press, USA, 1997.

Thomas E. Copeland, J. Fred Weston and Kuldeep Shastri**,** *Financial Theory and Corporate Policy*, Prentice Hall, 4th edition, 2003.

Richard A. Brealey and Stewart C. Myers, *Principles of Corporate Finance*, McGraw-Hill, 7th edition, 2002.

Stephen A. Ross, Randolph W. Westerfield and Bradford D. Jordan, *Fundamentals of Corporate Finance.* McGraw-Hill, 7th edition, 2005.

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-VI
ECO–DSEG22: Environmental Economics

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

This paper aims to make aware students about the importance of environment in economics and vice-versa. It helps them to know the ways of sustaining our resources by optimally allocating them for future use.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

UNIT-I

Introduction to environmental economics- introduction; the economy and the environment: inter-linkages; Features and Components of Environment, Environment as necessity and luxury. Population and Environment linkages, Environment and Development.

UNIT-II

Economics of pollution- Meaning and types of Pollution, Causes of pollution, optimal level of pollution; market solutions and government actions. Sustainable Development- Meaning, features, needs and indicators.

UNIT-III

Natural Resources- Types, classification, scarcity and its measurements, Tragedy of commons, Management of common property Resources.

Environment and market failures- market failures; problem of externalities; public goods and public bad, non-convexities; asymmetric information.

UNIT-IV

Environment Protection in India- Meaning and Need of Environment Protection, Environmental Policy Framework in India, Major Environmental Laws in India, National Environment policy in India.

Suggested Readings:

Goodstein, E.S.(2002): *Economics and the Environment* (3 rd ed.) Prentice Hall.

Hanley, N., Shogern, J.F and White, B(1977): *Environmental Economics in Theory and Practice*, Macmillan

Sankar, U. (ed) James, A.J., M.N.: *Environmental Economics*, Oxford University Press, New Delhi.

Murty and Smita Mishra (2006): Murty and Smita Mishra (1999), *Economics of Water Pollution- The Indian Experience*, Oxford University Press, New Delhi

Varian. Hal R.,(2006): *Intermediate Micro-Economics- A Modern Approach*, 7 th ed., East-West Press.

Cherry, S.N. and Vyasual, Vinod(2000): *Environmental Management- an Indian Perspectives*, Macmillan, New Delhi.

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-VI
ECO –DSEG23: AGRICULTURAL ECONOMICS

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I

Economics of agriculture: its nature and scope, interdependence between agriculture and industry. Nature and problems of agricultural development in developing countries.

Unit-II

Transforming Traditional Agriculture : Ranis & Fei, Schultz and Meller's Models, Lewis model of unlimited supplies of labour.

Unit-III

Land reforms and system of farming. Farm size and productivity relationship. Agricultural price policy, agricultural taxation (all these topics should deal with special reference to india).

Unit-IV

New agricultural strategy and green revolution. Problems of small farmers and agricultural labourers. Agricultural credit, marketable and marketed surplus. Surplus and its utilization. (all these topics would deal with special reference to India).

Recommended Readings :

R. N. Soni : *Leading Issues in Agricultural Economics*, Sohan Lal Nagin Chand & Co., Jalandhar, 1992.

Eicher and L. Witt : *Agriculture in Economic Development*, Vera & Co., Bombay, 1970. 3 Charan D. Wadhva : Some Problems of India's Economic Policy, Tata McGraw Hills, Bombay, 1973,

M. Khusro : *Readings in Agricultural Development*, Allied, Bombay, 1968,

P.C. Joshi: *Land Reforms in India: Trends and Perspectives*. Allied Publishers, New Delhi, 1975,

T. W. Schultz : *Transforming Traditional Agriculture*, Lyall Book Depot, Ludhiana, 1970.

J. W. Meller : *The Economics of Agricultural Development*, Vera & Co., Bombay, 1966.

Michael P. Todaro *: Economic Development in the Third World*, Orient Longman, New Delhi, 1987.

Francis R. Frankel : *India's Green Revolution – Economic Gains and Political Costs*, Oxford University Press, Bombay, 1971 .

S. K. Misra & V. K. Puri *: Indian Economy*, Himalaya Publishing House, Bombay, 1993. 11 Amarjit Singh & A. N. Sadhu : *Agricultural Problems in India*, Himalaya Publishing House, Bombay, 1986.

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-VI
ECO–DSEG24:ECONOMICS OF HEALTH AND EDUCATION

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

The importance of education and health in improving well-being is reflected in their inclusion among the Millennium Development Goals adopted by the United Nations member states, which include among other goals, achieving universal primary education, reducing child mortality, improving maternal health and combating diseases. This course provides a microeconomic framework to analyze, among other things, individual choice in the demand for health and education, government intervention and aspects of inequity and discrimination in both sectors. It also gives an overview of health and education in India.
Course Outline

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit-I
Role of health and education in human development, importance in poverty alleviation; health and education outcomes and their relationship with macroeconomic performance.

Unit-II
Microeconomic foundations of health economics demand for health; uncertainty and health insurance market; alternative insurance mechanisms; market failure and rationale for public intervention; equity and inequality.

Unit-III
Evaluation of health programs costing cost, effectiveness and cost-benefit analysis; burden of disease. Health sector in India: an overview health outcomes; health systems; health financing.

Unit-IV
Education: investment in human capital rate of return to education: private and social; quality of education; signalling or human capital; education sector in India: an overview literacy rates, school participation, school quality measures.

Sugessted Readings:

William, Jack, *Principles of Health Economics for Developing Countries*, World 24 Bank Institute Development Studies, 1999.

World Development Report, *Investing in Health*, The World Bank, 1993.

Ronald G., Ehrenberg and Robert S., Smith, *Modern Labor Economics: Theory and Public Policy*, Addison Wesley, 2005.

B.A. ECONOMICS (HONS) 3rd Year
SEMSTER-VI

ECO–DSEG25: Economics of Infrastructure

External Marks: 80
Internal Marks: 20
Time: 3Hrs

Course Description :

The contents of the paper 'Economics of Infrastructure' exposes the student wholly to issues involved in development of infrastructure in developing countries like India.

Instructions for the paper-setters and the candidates:

1. The question paper will consist of ***nine*** questions. The candidate shall attempt ***five*** questions in all. The Question No. 1 will be ***compulsory***. The Candidate shall attempt *four* more questions selecting *at least one* from each *Unit. The paper will* carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing five questions of equal marks (i.e.4,marks each) spread over the whole syllabus and answer to each question should not to be more than half page. Other questions will carry the 15 marks each.

Course Outline :

Unit 1:

Introduction Infrastructure and economic development — Infrastructure as a public good; Social and physical infrastructure; Economies of scale of Joint supply; Marginal Cost Pricing vs. other methods of pricing in public utilities; Cross-subsidization — free prices, equity and efficiency.

Unit 2:

Transport Infrastructure- demand for transport infrastructure, Models of Freight and Passenger Demand. Principle of Pricing. Special Problems of Individuals Modes of Transport; Inter-modal condition in the Indian Situation.

Unit 3:

Communications- Need and Role of Communication in Development, Rate-making in telephone utilities. principles of decreasing costs in telephone industry, Communication Sector in India- Challenges, opportunities and recent developments.

Unit 4:

Enegery- Primacy of Energy in the process of economic development, Electricity, Gas and Water Supply, Bulk Supply and Pricing of Electricity. Factors Determining Demand for Energy. Financing Water Utilities. Urban and Rural Water Supply.

Readings: Crew, M.A. and P.R. Kleindorfer (1979), Public Utility Economics, Macmillan, London. Indian Council of Social Sciences Research (ICSSR) (1976), Economics of Infrastructure, Vol. VI, New Delhi. National Council of Applied Economic Research (NCAER) (1996), India Infrastructure Report : Policy Implications for Growth and Welfare, NCAER, New Delhi. Parikh, K.S. (Ed.) (1997), India Development Report 1997, Oxford, New Delhi. Parikh, K.S. (Ed.) (1999), India Development Report — 1999-2000, Oxford, New Delhi. Turvey, R. (Ed.) (1968), Public Enterprises, Penguin, Harmondsworth, London

SCHEME OF B.A. (Hons.) ECONOMICS (SEMESTER SYSTEM) W.E F. 2019-20 IN PHASED MANNER

Chaudhary Devilal University, Sirsa

Bachelor of Arts (Hons.) Economics

Chaudhary Devilal University, Sirsa

Scheme for Theory Based Subjects

Guidelines for Scheme of examination of B.A. (Hons.) ECONOMICS

(under semester system)

The Scheme of Examination of undergraduate (UG) Courses under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under 80: 20 (external: internal) for theory based courses. Pass percentage will be ……..

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 20 marks based on the entire syllabus. It will comprise of five short answer type questions of four marks each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) up to four units depending on the subject). All remaining questions shall carry equal marks.
Scheme: 80:20 (external: internal)
1st question=20 marks (5 short answer type questions of four marks each)
Rest four questions: 15 marks each i.e. 4 x 15=60
Total = (20+60) + 20 = 100 marks

Components of Internal Assessment (Breakdown of 20 marks)

(a) Class Test: 5 marks

(b) Assignment: 10 marks (Two Assignments 5 marks each)

(c) Attendance: 5 marks*

*Weightage of 5 marks for **Attendance** component out of 20 marks for Internal Assessment shall be available only to those students who attend **75% and more** of classroom lectures. The break-up of

marks for **attendance component** for theory papers shall be as under:

(a) 75% and above up to 80: 2 marks

(b) Above 80% up to 85%: 3 mark

(c) Above 85% up to 90%: 4 marks

(d) Above 90%: 5 marks

SCHEME OF B.A. (Hons) ECONOMICS (SEMESTER SYSTEM) W.E F. 2018-19 IN PHASED MANNER

B.A. Economics (Hons.)-1st Year (Semester- I)

B.A. (Hons.) Economics Semester I

ECO-C1	Economics Core Course 1: Microeconomics-I
ECO-C2	Economics Core Course 2: Macro Economics-I
ENG-101	English
EVS- 01	Environment Studies (Common with B.A. General)
Comp-101	Compulsory computer Common with B.A. General (only Qualifying)
GE-1*	Generic Elective offered by other Department other than language

B.A. Economics (Hons.)-1st Year (Semester-II)

B.A. (Hons.) Economics Semester II

ECO-C3	Economics Core Course 3: Microeconomics –II
ECO-C4	Economics Core Course 4: Macro Economics-II
ENG-102	English
Comp-101	Compulsory computer Common with B.A. General (only Qualifying)
GE-2*	Generic Elective offered by other Department other than language

B.A. Economics (Hons.)-2nd Year (Semester-III)

ECO-C5	Economics Core Course 5: public Economics-I
ECO-C6	Economics Core Course 6: Development Economics-I
ECO-C7	Economics Core Course 7: Statistical Methods for Economists-I
ECO-C8	Economics Core Course 8: History of Economic Thought-I
EVS- 02	Environment Studies (Common with B.A. General)
GE-3*	Generic Elective offered by other Department other than language

B.A. Economics (Hons.)-2nd Year (Semester-IV)

ECO-C9	Economics Core Course 9: Public Economics- II
ECO-C10	Economics Core Course 10: Development Economics-II
ECO-C11	Economics Core Course 11: Statistical Methods for Economists-II
ECO-C12	Economics Core Course 12: Haryana Economy
GE-4*	Generic Elective offered by other Department other than language

B.A. Economics (Hons.)-3rd Year (Semester-V)

ECO-C13	Economics Core Course 13: Economic Development and Policy in India-I
ECO-C14	Economics Core Course 14: Mathematics for Economists

Required to opt any two papers from Discipline Specific Elective (DSE) from the Group-1:

Group-1 ECO-DSEG11 : International Economics

(Discipline specific Elective (DSE) Courses)	ECO-DSEG12 : Industrial Economics ECO-DSEG13 : Computer Application in Economics ECO-DSEG14 : Rural Development ECO-DSEG15 : Money And Banking
EVS-03	Environment Studies (Common with B.A. General)
GE-5*	Generic Elective offered by other Department other than language

B.A. Economics (Hons.)-3rd Year (Semester-VI)

ECO-C15	Economics Core Course 15: Economic Development and Policy in India-II
ECO-C16	Economics Core Course 16: Introductory Econometrics

Required to opt any two papers from Discipline Specific Elective (DSE) from the Group-2:

Group-2	ECO-DSEG21: Financial economics ECO-DSEG22: Environmental Economics
(Discipline specific Elective (DSE) Courses)	ECO-DSEG23: Agricultural Economics ECO-DSEG24: : Economics of Health and Education ECO-DSEG25 : Economics Infrastructure
GE-6*	Generic Elective offered by other Department other than language

**** Under General elective papers (GE1-6), the candidate will opt the papers in each semester discipline as once opted in first semester. The opted papers will belong to discipline other than language from B.A. pass course. The offering/availability of these options will be decided by th***

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Paper Assessment Scheme

For

Under Graduate Course,
For 3 Year(s) Bachelor Degree Program in

faculty of Humanities

Bachelor of Arts(B.A.)
(w.e.f. 2017-18-Regular)
Course Code: -

Papers

Teaching And Assessment Scheme

Abbreviations : TLM - Teaching Learning Method, AM - Assessment Method, AT - Assessment Type, EA - External Assessment, IA - Internal Assessment, Hrs - Contact Hours per Week, MS - Marks System, GS - Grade System, Min - Minimum Marks, Max - Maximum Marks, DG - Direct Grading, IG - Indirect Grading

Course Part: F.Y.B.A. Separate Passing Head: No, Min: 0, Max: 0

Term: Sem-I Separate Passing Head: No, Min Papers: 4, Max Papers: 10, Min: 0, Max: 400

The papers under Sem-I are as follows:

Paper Name: Commercial Art
Paper Code: AA01 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Fine Arts
Paper Code: AR01 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ2 Min: 0 Max: 200

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Computer Fundamental & Programming in C
Paper Code: CS01 A Min: 0 Max: 30

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Paper II
Paper Code: CS01 B Min: 0 Max: 30

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Computer Science PR
Paper Code: CS01 PR Min: 0 Max: 40

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Economics
Paper Code: EC01 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi Elective
Paper Code: EH01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: English.
Paper Code: EN01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Panjabi Elective
Paper Code: EP01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Early Childhood Care & Education
Paper Code: ER01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sanskrit Elective
Paper Code: ES01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Urdu Elective
Paper Code: EU01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fundamentals of Environmental Studies
Paper Code: EVS Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fashion Designing
Paper Code: FD01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Functional English
Paper Code: FE01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Functional Hindi
Paper Code: FH01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Human Rights & Duties India
Paper Code: HD01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi Comp.
Paper Code: HI01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: History
Paper Code: HR01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Mathematics: Algebra
Paper Code: MA01 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Mathematics: Calculus
Paper Code: MA01 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Mathematics: Solid Geometry
Paper Code: MA01 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Mass Communication & Video Production
Paper Code: MC01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Indian Classical Dance
Paper Code: MD01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Instrumental
Paper Code: MI01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Marketing
Paper Code: MM01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Defence Studies
Paper Code: MS01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Tabla
Paper Code: MT01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration
Paper Code: PA01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Health & Physical Education
Paper Code: PE01 Min: 0 Max: 75

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System

Paper Name: Philosophy
Paper Code: PH01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Political Science
Paper Code: PS01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Panjabi Comp.
Paper Code: PU01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Psychology
Paper Code: PY01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sanskrit Comp.
Paper Code: SA01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Sociology
Paper Code: SO01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Statistical Methods- I
Paper Code: ST01 A Min: 0 Max: 30

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Probability Theory
Paper Code: ST01 B Min: 0 Max: 30

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Statistics PR
Paper Code: ST01 PR Min: 0 Max: 40

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Urdu Comp.
Paper Code: UR01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Term: Sem-II Separate Passing Head: No, Min Papers: 4, Max Papers: 10, Min: 0, Max: 0

The papers under Sem-II are as follows:

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ2 Min: 0 Max: 200

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Basic Computer Course
Paper Code: CCEL-1 Min: 0 Max: 75

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	2.00/3.00	Theory	18	50	EA	12	35	Marks System
						IA	-	15	Marks System
Practical	1	1.00/3.00	Practical	-	25	IA	9	25	Marks System

Paper Name: PC-Software
Paper Code: CS02 A Min: 0 Max: 30

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Logical Organization of Computer-II
Paper Code: CS02 B Min: 0 Max: 30

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Practical (PC-Software)
Paper Code: CS02 PR Min: 0 Max: 40

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	6	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Economics
Paper Code: EC02 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi Elective
Paper Code: EH02 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: English
Paper Code: EN02 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Punjabi Elective
Paper Code: EP02 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Sanskrit Elective
Paper Code: ES02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fundamentals of Environmental Studies
Paper Code: EVS Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fashion Designing
Paper Code: FD02 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Functional English
Paper Code: FE02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Hindi Compulsory
Paper Code: HI02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: History
Paper Code: HR02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Number Theory and Trigonometry
Paper Code: MA02 A Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Ordinary Differential Equations
Paper Code: MA02 B Min: 0 Max: 32

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	32	EA	-	26	Marks System
						IA	-	6	Marks System

Paper Name: Vector Calculus
Paper Code: MA02 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Music Instrumental
Paper Code: MI02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Defence Studies
Paper Code: MS02 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV02 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration
Paper Code: PA02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Health and Physical Education
Paper Code: PE02 Min: 0 Max: 125

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System
Practical	3	0.00/0	Practical	-	50	EA	18	50	Marks System

Paper Name: Political Science
Paper Code: PS02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Punjabi Comp.
Paper Code: PU02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Psychology Paper Code: PY02 Min: 35 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: Sanskrit Comp. Paper Code: SA02 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Sociology Paper Code: SO02 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Statistical Methods-II Paper Code: ST02 A Min: 0 Max: 35									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	35	EA	-	28	Marks System
						IA	-	7	Marks System
Paper Name: Probability Distributions Paper Code: ST02 B Min: 0 Max: 35									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	35	EA	-	28	Marks System
						IA	-	7	Marks System
Paper Name: Statistics PR Paper Code: ST02 PR Min: 0 Max: 60									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	3	0.00/0	Practical	-	60	EA	21	60	Marks System
Paper Name: Urdu Comp. Paper Code: UR02 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Course Part: S.Y.B.A. Separate Passing Head: No, Min: 0, Max: 800

Term: Sem-III Separate Passing Head: No, Min Papers: 4, Max Papers: 10, Min: 0, Max: 400

The papers under Sem-III are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ4 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Computer Science Paper Code: CS03 A Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Computer Science
Paper Code: CS03 B Min: 0 Max: 30

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Computer Science
Paper Code: CS03 C Min: 0 Max: 40

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Economics
Paper Code: EC03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi Elective
Paper Code: EH03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: English
Paper Code: EN03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Punjabi Elective
Paper Code: EP03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Sanskrit Elective
Paper Code: ES03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Environmental Pollution
Paper Code: EVS03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fundamentals of Environmental Studies (Qualifying)
Paper Code: EVS2 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fashion Designing
Paper Code: FD03 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Functional English
Paper Code: FE03 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE03 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Hindi Compulsory
Paper Code: HI03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: History
Paper Code: HR03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS03 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Advanced Calculus
Paper Code: MA03 A Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Partial Differential Equations
Paper Code: MA03 B Min: 0 Max: 32

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	32	EA	-	26	Marks System
						IA	-	6	Marks System

Paper Name: Statics
Paper Code: MA03 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Music Instrumental
Paper Code: MI03 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Defence Studies
Paper Code: MS03 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV03 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration
Paper Code: PA03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Health and Physical Education
Paper Code: PE03 Min: 0 Max: 75

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System

Paper Name: Political Science
Paper Code: PS03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Punjabi Comp.
Paper Code: PU03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Psychology
Paper Code: PY03 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sanskrit Comp.
Paper Code: SA03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Sociology
Paper Code: SO03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Statistics I Paper Code: ST03 A Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System
Paper Name: Statistics II Paper Code: ST03 B Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System
Paper Name: Statistics III Paper Code: ST03 C Min: 0 Max: 40									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	2	0.00/0	Practical	-	40	EA	-	40	Marks System
Paper Name: Urdu Comp. Paper Code: UR03 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Term: Sem-IV Separate Passing Head: No, Min Papers: 4, Max Papers: 11, Min: 0, Max: 400

The papers under Sem-IV are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ4 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Operating Systems Paper Code: CS04 A Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System
Paper Name: Programming in Visual Basic Paper Code: CS04 B Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System
Paper Name: Computer Science Practical Paper Code: CS04 P Min: 0 Max: 40									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	2	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: Economics Paper Code: EC04 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Hindi Elective Paper Code: EH04 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: English Compulsory
Paper Code: EN04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Punjabi Elective
Paper Code: EP04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Sanskrit Elective
Paper Code: ES04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Environmental Pollution
Paper Code: EVS04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fashion Designing
Paper Code: FD04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	26	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	14	40	EA	14	40	Marks System

Paper Name: Functional English
Paper Code: FE04 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE04 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Hindi Compulsory
Paper Code: HI04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: History
Paper Code: HR04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS04 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sequence and Series
Paper Code: MA04 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Special Functions & Integral Transforms
Paper Code: MA04 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Programming in C and Numerical Methods
Paper Code: MA04 C Min: 0 Max: 20

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	20	EA	-	20	Marks System

Paper Name: Math Practial
Paper Code: MA04 P Min: 0 Max: 14

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	14	EA	5	14	Marks System

Paper Name: Music Instrumental
Paper Code: MI04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Defence Studies
Paper Code: MS04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV04 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration
Paper Code: PA04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Health and Physical Education
Paper Code: PE04 Min: 0 Max: 125

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System
Practical	3	0.00/0	Practical	17	50	EA	17	50	Marks System

Paper Name: Political Science
Paper Code: PS04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Punjabi Compulsory
Paper Code: PU04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Psychology
Paper Code: PY04 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sanskrit Comp.
Paper Code: SA04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Sociology
Paper Code: SO04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Statistics I
Paper Code: ST04 A Min: 0 Max: 30

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Statistics II
Paper Code: ST04 B Min: 0 Max: 30

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Statistics III
Paper Code: ST04 C Min: 0 Max: 40

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	40	EA	-	40	Marks System

Paper Name: Urdu Comp.
Paper Code: UR04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Course Part: T.Y.B.A. Separate Passing Head: No, Min: 0, Max: 800

Term: Sem-V Separate Passing Head: No, Min Papers: 4, Max Papers: 11, Min: 0, Max: 400

The papers under Sem-V are as follows:

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ4 Min: 0 Max: 200

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Computer Science
Paper Code: CS05 A Min: 0 Max: 30

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Computer Science
Paper Code: CS05 B Min: 0 Max: 30

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System

Paper Name: Computer Science Practical
Paper Code: CS05 C Min: 0 Max: 40

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	2	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Economics
Paper Code: EC05 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi Elective
Paper Code: EH05 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: English
Paper Code: EN05 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Punjabi Elective
Paper Code: EP05 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Sanskrit Elective
Paper Code: ES05 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Environmental Conservation and Society
Paper Code: EVS05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fashion Designing
Paper Code: FD05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Functional English
Paper Code: FE05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Hindi Compulsory
Paper Code: HI05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: History
Paper Code: HR05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	6	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Real Analysis
Paper Code: MA05 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Group Ring
Paper Code: MA05 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Numerical Analysis
Paper Code: MA05 C Min: 0 Max: 20

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	20	EA	-	20	Marks System

Paper Name: Math Practical
Paper Code: MA05 P Min: 0 Max: 14

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	14	EA	5	14	Marks System

Paper Name: Music Instrumental
Paper Code: MI05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Defence Studies
Paper Code: MS05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration
Paper Code: PA05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Health and Physical Education
Paper Code: PE05 Min: 0 Max: 75

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System

Paper Name: Political Science
Paper Code: PS05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Punjabi Compulsory
Paper Code: PU05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Psychology
Paper Code: PY05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sanskrit Comp. Paper Code: SA05 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Sociology Paper Code: SO05 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Statistics I Paper Code: ST05 A Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	7	20	Marks System
						IA	-	10	Marks System
Paper Name: Statistics II Paper Code: ST05 B Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	7	20	Marks System
						IA	-	10	Marks System
Paper Name: Statistics III Paper Code: ST05 C Min: 0 Max: 40									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	2	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: Urdu Comp. Paper Code: UR05 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Term: Sem-VI Separate Passing Head: No, Min Papers: 4, Max Papers: 11, Min: 0, Max: 400

The papers under Sem-VI are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ6 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Computer Networks Paper Code: CS06 A Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System
Paper Name: Relational Database Management System Paper Code: CS06 B Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	20	Marks System
						IA	-	10	Marks System
Paper Name: Computer Science Practical Paper Code: CS06 P Min: 0 Max: 40									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	2	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Economics
Paper Code: EC06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi Elective
Paper Code: EH06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: English Compulsory
Paper Code: EN06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Punjabi Elective
Paper Code: EP06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Sanskrit Elective
Paper Code: ES06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Environmental Conservation and Society
Paper Code: EVS06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fashion Designing
Paper Code: FD06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	26	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Functional English
Paper Code: FE06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Hindi Compulsory
Paper Code: HI06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: History
Paper Code: HR06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Real and Complex Analysis
Paper Code: MA06 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Linear Algebra
Paper Code: MA06 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Dynamics
Paper Code: MA06 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Music Instrumental
Paper Code: MI06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Defence Studies
Paper Code: MS06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration
Paper Code: PA06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Health and Physical Education
Paper Code: PE06 Min: 0 Max: 125

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System
Practical	3	0.00/0	Practical	-	50	EA	18	50	Marks System

Paper Name: Political Science
Paper Code: PS06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Psychology
Paper Code: PY06 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sociology
Paper Code: SO06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Paper Assessment Scheme

For

Under Graduate Course,
For 3 Year(s) Bachelor Degree Program in

faculty of Humanities

Bachelor of Arts in Economics Honors(B.A. Economics Hons.)
(w.e.f 2019-20-Regular)
Course Code: -

Papers

Teaching And Assessment Scheme

Abbreviations : TLM - Teaching Learning Method, AM - Assessment Method, AT - Assessment Type, EA - External Assessment, IA - Internal Assessment, Hrs - Contact Hours per Week, MS - Marks System, GS - Grade System, Min - Minimum Marks, Max - Maximum Marks, DG - Direct Grading, IG - Indirect Grading

Course Part: F.Y.B.A. Economics Hons. Separate Passing Head: No, Min: 0, Max: 900

Term: Sem-I Separate Passing Head: Yes, Min Papers: 4, Max Papers: 8, Min: 160, Max: 400

The papers under Sem-I are as follows:

Paper Name: Commercial Art
Paper Code: AA01 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Fine Arts
Paper Code: AR01 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Economics
Paper Code: EC01 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Microeconomics-I
Paper Code: ECO-C1 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Macroeconomics-I
Paper Code: ECO-C2 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi Elective
Paper Code: EH01 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: English
Paper Code: ENG-101 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Panjabi Elective
Paper Code: EP01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Early Childhood Care & Education
Paper Code: ER01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sanskrit Elective
Paper Code: ES01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Urdu Elective
Paper Code: EU01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fundamentals of Environmental Studies
Paper Code: EVS Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fashion Designing
Paper Code: FD01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Functional English
Paper Code: FE01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	6	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Functional Hindi
Paper Code: FH01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Human Rights & Duties India
Paper Code: HD01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: History
Paper Code: HR01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Mathematics: Algebra
Paper Code: MA01 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Mathematics: Calculus
Paper Code: MA01 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Mathematics: Solid Geometry
Paper Code: MA01 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Mass Communication & Video Production
Paper Code: MC01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Indian Classical Dance
Paper Code: MD01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Instrumental
Paper Code: MI01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Marketing
Paper Code: MM01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Defence Studies
Paper Code: MS01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Tabla
Paper Code: MT01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration
Paper Code: PA01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Health & Physical Education
Paper Code: PE01 Min: 0 Max: 75

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System

Paper Name: Philosophy
Paper Code: PH01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Political Science
Paper Code: PS01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Psychology
Paper Code: PY01 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sociology Paper Code: SO01 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Term: Sem-II Separate Passing Head: No, Min Papers: 5, Max Papers: 8, Min: 0, Max: 0

The papers under Sem-II are as follows:

Paper Name: Basic Computer Course Paper Code: CCEL-1 Min: 0 Max: 75									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	2.00/3.00	Theory	18	50	EA	13	35	Marks System
						IA	-	15	Marks System
Practical	1	1.00/3.00	Practical	-	25	IA	9	25	Marks System
Paper Name: Microeconomics-II Paper Code: ECO-C3 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System
Paper Name: Macro Economics-II Paper Code: ECO-C4 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System
Paper Name: English Paper Code: ENG-102 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System
Paper Name: Fundamentals of Environmental Studies Paper Code: EVS Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Fashion Designing Paper Code: FD02 Min: 35 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: Geography Paper Code: GE02 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: History Paper Code: HR02 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Number Theory and Trigonometry
Paper Code: MA02 A Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Ordinary Differential Equations
Paper Code: MA02 B Min: 0 Max: 32

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	32	EA	-	26	Marks System
						IA	-	6	Marks System

Paper Name: Vector Calculus
Paper Code: MA02 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Music Instrumental
Paper Code: MI02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Defence Studies
Paper Code: MS02 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV02 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration
Paper Code: PA02 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Health and Physical Education
Paper Code: PE02 Min: 0 Max: 125

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System
Practical	3	0.00/0	Practical	-	50	EA	18	50	Marks System

Paper Name: Political Science Paper Code: PS02 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Psychology Paper Code: PY02 Min: 35 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: Sociology Paper Code: SO02 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Course Part: S.Y.B.A. Economics Hons. Separate Passing Head: No, Min: 0, Max: 1100

Term: Sem-III Separate Passing Head: No, Min Papers: 5, Max Papers: 8, Min: 0, Max: 0

The papers under Sem-III are as follows:

Paper Name: Public Economics-I Paper Code: ECO-C5 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System
Paper Name: Development Economics-I Paper Code: ECO-C6 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System
Paper Name: Statistical Methods for Economists-I Paper Code: ECO-C7 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System
Paper Name: History of Economic Thought-I Paper Code: ECO-C8 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System
Paper Name: Environmental Pollution Paper Code: EVS03 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Fashion Designing Paper Code: FD03 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: History
Paper Code: HR03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Advanced Calculus
Paper Code: MA03 A Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Partial Differential Equations
Paper Code: MA03 B Min: 0 Max: 32

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	32	EA	-	26	Marks System
						IA	-	6	Marks System

Paper Name: Statics
Paper Code: MA03 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Music Instrumental
Paper Code: MI03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Defence Studies
Paper Code: MS03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration Paper Code: PA03 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Health and Physical Education Paper Code: PE03 Min: 0 Max: 75									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System
Paper Name: Political Science Paper Code: PS03 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Psychology Paper Code: PY03 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: Sociology Paper Code: SO03 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Term: Sem-IV Separate Passing Head: No, Min Papers: 5, Max Papers: 9, Min: 0, Max: 0

The papers under Sem-IV are as follows:

Paper Name: Development Economics-II Paper Code: ECO-C10 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System
Paper Name: Statistical Methods for Economists-II Paper Code: ECO-C11 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System
Paper Name: Haryana Economy Paper Code: ECO-C12 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System
Paper Name: Public Economics-II Paper Code: ECO-C9 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Environmental Pollution
Paper Code: EVS04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fashion Designing
Paper Code: FD04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: History
Paper Code: HR04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sequence and Series
Paper Code: MA04 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Special Functions & Integral Transforms
Paper Code: MA04 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Programming in C and Numerical Methods
Paper Code: MA04 C Min: 0 Max: 20

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	20	EA	-	20	Marks System

Paper Name: Math Practial
Paper Code: MA04 P Min: 0 Max: 14

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	14	EA	5	14	Marks System

Paper Name: Music Instrumental
Paper Code: MI04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Defence Studies Paper Code: MS04 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: Music Vocal Paper Code: MV04 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: Public Administration Paper Code: PA04 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Health and Physical Education Paper Code: PE04 Min: 0 Max: 125									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System
Practical	3	0.00/0	Practical	-	50	EA	18	50	Marks System
Paper Name: Political Science Paper Code: PS04 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Psychology Paper Code: PY04 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: Sociology Paper Code: SO04 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Course Part: T.Y.B.A. Economics Hons. Separate Passing Head: No, Min: 0, Max: 1100

Term: Sem-V Separate Passing Head: No, Min Papers: 6, Max Papers: 7, Min: 0, Max: 0

The papers under Sem-V are as follows:

Paper Name: Economic Development and Policy in India-I Paper Code: ECO-C13 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Mathematics for Economists
Paper Code: ECO-C14 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: International Economics
Paper Code: ECO-DSEG11 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Industrial Economics
Paper Code: ECO-DSEG12 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Computer Application in Economics
Paper Code: ECO-DSEG13 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Rural Development
Paper Code: ECO-DSEG14 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Money And Banking
Paper Code: ECO-DSEG15 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Environmental Conservation and Society
Paper Code: EVS05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fashion Designing
Paper Code: FD05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: History
Paper Code: HR05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	6	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Instrumental
Paper Code: MI05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Defence Studies
Paper Code: MS05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration
Paper Code: PA05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Health and Physical Education
Paper Code: PE05 Min: 0 Max: 75

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System

Paper Name: Political Science
Paper Code: PS05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Psychology
Paper Code: PY05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Sociology
Paper Code: SO05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Term: Sem-VI Separate Passing Head: No, Min Papers: 5, Max Papers: 6, Min: 0, Max: 0

The papers under Sem-VI are as follows:

Paper Name: Economic Development and Policy in India-II
Paper Code: ECO-C15 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Introductory Econometrics
Paper Code: ECO-C16 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Financial economics
Paper Code: ECO-DSEG21 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Environmental Economics
Paper Code: ECO-DSEG22 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Agricultural Economics
Paper Code: ECO-DSEG23 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Economics of Health and Education
Paper Code: ECO-DSEG24 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Economics Infrastructure
Paper Code: ECO-DSEG25 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	40	100	EA	32	80	Marks System
						IA	-	20	Marks System

Paper Name: Environmental Conservation and Society
Paper Code: EVS06 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fashion Designing
Paper Code: FD06 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Geography
Paper Code: GE06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: History
Paper Code: HR06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Home Science
Paper Code: HS06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Instrumental
Paper Code: MI06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Defence Studies
Paper Code: MS06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Music Vocal
Paper Code: MV06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System

Paper Name: Public Administration
Paper Code: PA06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Health and Physical Education
Paper Code: PE06 Min: 0 Max: 125

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	26	75	EA	21	60	Marks System
						IA	-	15	Marks System
Practical	3	0.00/0	Practical	-	50	EA	18	50	Marks System

Paper Name: Political Science
Paper Code: PS06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Psychology Paper Code: PY06 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	21	60	EA	14	40	Marks System
						IA	-	20	Marks System
Practical	3	0.00/0	Practical	-	40	EA	14	40	Marks System
Paper Name: Sociology Paper Code: SO06 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Course Structure Scheme

For

Under Graduate,
3 Year(s) Bachelor Degree Program in

faculty of Humanities

Bachelor of Arts in Economics Honors(B.A. Economics Hons.)
(w.e.f 2019-20-Regular)
Course Code: -

Publisher's Note

This Chaudhary Devi Lal University has great Pleasure in publishing this course structure for Under Graduate course for 3 Year(s) Bachelor Degree Program as "Bachelor of Arts in Economics Honors" (w.e.f 2019-20 - Regular) under the Faculty of "faculty of Humanities".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

Date: 4/23/2021 10:00:40 AM
Chaudhary Devi Lal University,Sirsa, Haryana, Pin-125055, (India) Registrar

Course Objective(s)

The Bachelor of Arts in Economics Honors Consists of following 3 course part(s):

Sr.No.	Course Part Name	Course Part Abbrevation	Examination Pattern
1	First Year Bachelor of Arts in Economics Honors	F.Y.B.A. Economics Hons.	Semester
2	Second Year Bachelor of Arts in Economics Honors	S.Y.B.A. Economics Hons.	Semester
3	Third Year Bachelor of Arts in Economics Honors	T.Y.B.A. Economics Hons.	Semester

The Bachelor of Arts in Economics Honors is available in following medium of instruction/s:

1. English

Course Part: F.Y.B.A. Economics Hons. Separate Passing Head: No, Min: 0, Max: 900

Term: Sem-I Separate Passing Head: Yes, Min Courses: 4, Max Courses: 8, Min:160,Max:400

The papers for F.Y.B.A. Economics Hons. - Sem-I are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Compulsory Group (Min Papers: 3, Max Papers: 4,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 4 paper(s)

Papers:

EVS	Fundamentals of Environmental Studies
ECO-C1	Microeconomics-I
ECO-C2	Macroeconomics-I
ENG-101	English

2.Elective Group (Min Subgroups: 1, Max SubGroups: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)

SubGroups:

1.Elective Group Math (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

MA01 A	Mathematics: Algebra
MA01 B	Mathematics: Calculus
MA01 C	Mathematics: Solid Geometry

2.Elective Group Papers (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

EP01	Panjabi Elective
ES01	Sanskrit Elective
HR01	History
EH01	Hindi Elective
EC01	Economics
PS01	Political Science
SO01	Sociology
PA01	Public Administration
PH01	Philosophy
MC01	Mass Communication & Video Production
HD01	Human Rights & Duties India
MM01	Marketing
PE01	Health & Physical Education
PY01	Psychology
MV01	Music Vocal
MI01	Music Instrumental
MT01	Music Tabla
AR01	Fine Arts
MS01	Defence Studies
HS01	Home Science
GE01	Geography

	AA01	Commercial Art
	ER01	Early Childhood Care & Education
	FE01	Functional English
	FH01	Functional Hindi
	FD01	Fashion Designing
	MD01	Indian Classical Dance
	EU01	Urdu Elective

Term: Sem-II Separate Passing Head: No, Min Courses: 5, Max Courses: 8, Min:0,Max:0

The papers for F.Y.B.A. Economics Hons. - Sem-II are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Compulsory Group (Min Papers: 4, Max Papers: 5,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 4 paper(s)
Select maximum 5 paper(s)

Papers:

EVS	Fundamentals of Environmental Studies
CCEL-1	Basic Computer Course
ECO-C3	Microeconomics-II
ECO-C4	Macro Economics-II
ENG-102	English

2.Elective Group (Min Subgroups: 1, Max SubGroups: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)

SubGroups:

1.Elective Group Math (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

MA02 A	Number Theory and Trigonometry
MA02 B	Ordinary Differential Equations
MA02 C	Vector Calculus

2.Elective Group Papers (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

FD02	Fashion Designing
GE02	Geography
HR02	History
HS02	Home Science
MI02	Music Instrumental
MS02	Defence Studies
MV02	Music Vocal
PA02	Public Administration
PE02	Health and Physical Education
PS02	Political Science
PY02	Psychology
SO02	Sociology

Course Part: S.Y.B.A. Economics Hons. Separate Passing Head: No, Min: 0, Max: 1100

Term: Sem-III Separate Passing Head: No, Min Courses: 5, Max Courses: 8, Min:0,Max:0

The papers for S.Y.B.A. Economics Hons. - Sem-III are classified into following groups:

1.Main Group (Min Subgroups: 2, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Compulsory group (Min Papers: 4, Max Papers: 5,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 4 paper(s)
Select maximum 5 paper(s)

Papers:

EVS03	Environmental Pollution
ECO-C5	Public Economics-I
ECO-C6	Development Economics-I
ECO-C7	Statistical Methods for Economists-I
ECO-C8	History of Economic Thought-I

2.Elective Group (Min Subgroups: 1, Max SubGroups: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)

SubGroups:

1.Elective Group Math (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

MA03 A	Advanced Calculus
MA03 B	Partial Differential Equations
MA03 C	Statics

2.Elective Group Papers (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

FD03	Fashion Designing
GE03	Geography
HR03	History
HS03	Home Science
MI03	Music Instrumental
MS03	Defence Studies
MV03	Music Vocal
PA03	Public Administration
PS03	Political Science
PY03	Psychology
SO03	Sociology
PE03	Health and Physical Education

Term: Sem-IV Separate Passing Head: No, Min Courses: 5, Max Courses: 9, Min:0,Max:0

The papers for S.Y.B.A. Economics Hons. - Sem-IV are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Compulsory Group (Min Papers: 4, Max Papers: 5,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 4 paper(s)
Select maximum 5 paper(s)

Papers:

EVS04	Environmental Pollution
ECO-C9	Public Economics-II
ECO-C10	Development Economics-II
ECO-C11	Statistical Methods for Economists-II
ECO-C12	Haryana Economy

2.Elective Group (Min Subgroups: 1, Max SubGroups: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)

SubGroups:

1.Elective Group Math (Min Papers: 4, Max Papers: 4,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 4 paper(s)
Select maximum 4 paper(s)

Papers:

MA04 A	Sequence and Series
MA04 B	Special Functions & Integral Transforms
MA04 C	Programming in C and Numerical Methods
MA04 P	Math Practial

2.Elective Group Papers (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

MI04	Music Instrumental
MV04	Music Vocal
PA04	Public Administration
PE04	Health and Physical Education
PS04	Political Science
PY04	Psychology
SO04	Sociology
FD04	Fashion Designing
GE04	Geography
HR04	History
HS04	Home Science
MS04	Defence Studies

Course Part: T.Y.B.A. Economics Hons. Separate Passing Head: No, Min: 0, Max: 1100

Term: Sem-V Separate Passing Head: No, Min Courses: 6, Max Courses: 7, Min:0,Max:0

The papers for T.Y.B.A. Economics Hons. - Sem-V are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Compulsory Group (Min Papers: 2, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 3 paper(s)

Papers:

EVS05	Environmental Conservation and Society
ECO-C13	Economic Development and Policy in India-I
ECO-C14	Mathematics for Economists

2.Elective Group (Min Subgroups: 2, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Discipline specific Elective Group (Min Papers: 2, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

ECO-DSEG11	International Economics
ECO-DSEG12	Industrial Economics
ECO-DSEG13	Computer Application in Economics
ECO-DSEG14	Rural Development
ECO-DSEG15	Money And Banking

2.General Elective Group (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

HR05	History
PS05	Political Science
PA05	Public Administration
MS05	Defence Studies
FD05	Fashion Designing
GE05	Geography
PE05	Health and Physical Education
HS05	Home Science
MI05	Music Instrumental
MV05	Music Vocal
PY05	Psychology
SO05	Sociology

Term: Sem-VI Separate Passing Head: No, Min Courses: 5, Max Courses: 6, Min:0,Max:0

The papers for T.Y.B.A. Economics Hons. - Sem-VI are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Compulsory Group (Min Papers: 2, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 3 paper(s)

Papers:

EVS06	Environmental Conservation and Society
ECO-C15	Economic Development and Policy in India-II
ECO-C16	Introductory Econometrics

2.Elective Group (Min Subgroups: 2, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Discipline specific Elective Group (Min Papers: 2, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

ECO-DSEG21	Financial economics
ECO-DSEG22	Environmental Economics
ECO-DSEG23	Agricultural Economics
ECO-DSEG24	Economics of Health and Education
ECO-DSEG25	Economics Infrastructure

2.Generic Elective Group (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

PE06	Health and Physical Education
HR06	History
PS06	Political Science
PA06	Public Administration
MS06	Defence Studies
SO06	Sociology
PY06	Psychology
MV06	Music Vocal
MI06	Music Instrumental
HS06	Home Science
GE06	Geography
FD06	Fashion Designing

CHAUDHARY DEVI LAL UNIVERSITY
SIRSA (HARYANA)

UNIVERSITY CENTRE FOR DISTANCE LEARNING

SYLLABI & SCHEME OF EXAMINATION

BACHELOR OF ARTS

(2nd Year)

(DISTANCE EDUCATION MODE)

2011-12

B.A. (General) Part-II

1. ENGLISH

Session (2010-2011)

Scheme of Examination

Max. Marks:40
Internal assignment:10
Time : 3 Hour

Paper-A

1. A Collection of Poems edited by Prof. SS. Sangwan.
2. Snap Shots (One-Act Plays) edited by Dr. SJL Sharma.
3. Mahabharata edited by C.Rajagopalachari (First-63 chapters from, episode ' Ganapati, the Scribe' to Yudhisthira seeks Benediction')

Scheme of Examination

Q. 1. Explanation with reference to context. The candidate will be required to attempt one passage given with internal choice, from the book of poems

(04 marks)

Q 2. Short-answer type question;

Four short –answer type questions will be set on the prescribed

Poems and four short-answer type question will be set on Mahabharata. The student will be required to attempt five questions out of given eight questions selecting at least two from each text (i.e. book of poems and Mahabharata)

(5 marks)

Q. 3. One essay –type question (with internal choice) will be set on each of the prescribed book of poems and one-act plays. Students will be required to attempt one question each from both the texts.

Q. 4. One essay type question (with internal choice) will be set on the book offiction.

(8 marks)

Q.5 Items based on the exercise appended to the one –act plays.

(5marks)

Question-wise distribution of marks:–

Question-I	04 marks
Question-II	05 marks
Question-III	18 marks
Question-IV	08 marks
Question-V	05 marks
Total	**40 marks**

Scheme of Examination

Paper –B

Max.Marks : 40
Internal assignment : 10
Time : 3 Hours

Prescribed Text-book :

1. A Course Book of English Grammar, Composition and Translation ed. By Dr. Sanjay and Dr. Inderjit Kumar.

Scheme of Examination

Q.1 Question of Grammar of the prescribed items (use of tenses incommunicative situations, subjects-verb concord, active and passive voice, narration) will be based on prescribed text-book of Grammar but not necessarily are same as those given in the text-book, and question on common errors, word power, vocabulary, idioms and phrases will be from prescribed text-book of grammar only.

(15 marks)

Q.2 Comprehension passage (with five question at the end)

(10 marks)

Q.3 Précis

(7 marks)

A passage of about 250 words will be given.

Q.4 Translation (from English to Hindi) of a passage consisting of 7 to 8 sentences. **(08 marks)**

Question – wise distribution of marks :

Question-I	15 Marks
Question-II	10 Marks
Question-III	07 Marks
Question-IV	08 Marks
	40 Marks

हिन्दी (अनिवार्य)

पूर्णांक 80+20 =100

आंतरिक मूल्यांकन 10,10 =20

समय : 3 घण्टे

1. अभिनव काव्य गरिमा, म.द.वि. रोहतक।
2. अभिनव गध गरिमा, कुरूक्षेत्र विश्वविघालय, कुरूक्षेत्र।
3. अंधेर नगरी-भारतेन्दु हरिशचन्द्र।
4. जहाज का पंछी संक्षिप्त संस्करण इलाचन्द्र जोशी।
5. हिन्दी साहित्य का इतिहास।

निर्देश :-

1. प्रथम प्रश्न पाठ्य पुस्तक अभिनव काव्य-गरिमा से व्याख्या के रूप में होगा। इस प्रश्न में चार अवतरण पूछे जाएंगे। परीक्षार्थियों को इनमें से दो की सप्रसंग व्याख्या लिखनी होगी। प्रत्येक व्याख्या सात-सात अंकों की होगी।
2. निर्धारित कवियों के जीवन-परिचय और कवित्व से संबंधित तीन आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षाथियों को इनमें से एक प्रश्न का उत्तर देना होगा। यह प्रश्न अनुशीलनी पर आधारित होगा और दस अंको का होगा।
3. अंधेर नगरी से दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थियों को एक का उत्तर देना होगा जो 10 अंकों का होगा। इस पुस्तक से आलोचनात्मक प्रक्न ही पूछा जाएगा।
4. जहाज का पंछी उपन्यास से चार आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थियों को जिसमें से दो प्रश्नों के उत्तर देने होंगें। प्रत्येक प्रश्न दस-दस अंकों का होगा। इस पुस्तक से व्याख्या नहीं पूछी जाएगी। जहाज का पंछी के लिए निर्धारित आलोच्य विषय-नामकरण की सार्थकता, तात्विक समीक्षा, नायकत्व, चरित्र-चित्रण, उद्देश्य, मनोविज्ञानिकता, भाषा-शैली।

5. हिन्दी साहित्य का इतिहास आधुनिक काल से दो प्रश्न पूछे जाएंगे। परीक्षार्थियों को इनमें से एक का उत्तर देना होगा: यह प्रश्न 12 अंको का होगा। हिन्दी साहित्य का इतिहास के निर्धारित आलोच्य विषय आधुनिक काल परिस्थितियां, भारतेन्दुगीन काव्य, द्विवेदीयुगीन काव्य, छायावादी काव्य, प्रगतिवादी काव्य, प्रयोगवादी काव्य, नई कविता प्रवृत्तियां।
6. निर्धारित पाठ्य पुस्तक अभिनव गद्य गरिमा से व्याख्या के लिए चार अवतरण दिए जाएंगे। जिसमें से परीक्षार्थियों को दो की सप्रसंग व्याख्या करनी होगी। जिसके 7+7 =14 अंक होंगे। पाठ्य पुस्तक की अनशीलनी से लगभग 250 शब्दों में दो प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न पांच-पांच अंको का होगा।

ECONOMICS

One Paper

Max.Marks :80
Internal Assesment :20
Time : 3 Hours

Note : The question paper will carry a maximum of 80 marks and it will consist of question out of which the candidate would be required to attempt five question. Each question will carry 16 marks. The first question will compulsory and it will include objective type question and short definitional type question (8 questions) uniformly spread over entire syllabus haring 2 marks each the remaining 8 questions will be include 2 questions from each of the four units and the candidate would be required to attempt one question from each unit.

Preamble

On account of the growing influence and involvement of the State in economic fields, macro-economics has become a major area of economic analysis is terms of the theoretical, empirical as well as policy making issues. Macro-economics has an extensive, substantive as will as methodological content. It deals with the functioning of the economy as a whole, including how the economy's total output of goods and services and employment of resources is detennined and what causes these totals to fluctuate. The canvas of the study in the whole, rather than the part because what it true of parts is not necessarily ture of the whole.

The Part-A of this paper entitled "Macro-economics" is designed to make an undergraduate student aware of the basic theoretical framework underlying the field of Macro-economics.

The Part-B of this paper entitled "Money, Banking and Public Finance" is designed on the premise that a clear understanding of the operations of money and banking and their interaction with the rest of the economy is essential to realize how monetary forces operate through a multitude of channels-market, non-market, institutions and among others, the state. In modern times, the activities of state have considerably increased and the theoretical understanding of different state activities through the budgetary mechanism is essential.

Part-A
(Macro Economics)

Unit –I

National Income:, Concept and Measurement, Say's Law of Markets and the Classical theory of employment Keyness' objection to the Classic theory, Keynesian employment theory, Consumption function; Autonomous and induced investment; Investment multiplier, Theories of investment MEC and accelerator.

Unit-II

Trade Cycle theories-Samuelson and Hicks; Control of trade cycles; Growth models-Harrod-Domar model and Solow model.

Part-B
(Money, Banking and Public Finance)

Unit-III

Money – meaning, functions and significance; Quantity theory of money, Keynesian theory of money; Inflation demand-pull and cost-push; Effects and control of inflation; functions of commercial banks and Central Bank; Credit and Control, Recent reforms in banking sector in India.

Unit-IV

Nature and Scope of Public Finance; The Principal of maximum social advantage; Classification canons and effects of public expenditure; Classification, canons and effects of taxation. Impact and incidence of taxes; Characteristics of a good tax system; Recent tax reforms in India-an overview, Sources and effects of public debt; Methods of debt redemption; Recommendations of Recent Finance Commission.

Reading List :

1. Ackley, G. (1976) Macroeconomics, Theory and Policy, Macmillan Publishing Company, New York.
2. Day, A.C.L. (1960) Outline of Monetary Economics, Oxford University Press, Oxford.
3. Gupta, S.B. (1994), Monetary Economics, S.Chand and Co.., Delhi.
4. Heijdra, B.J. and F.V. Ploeg (2001) Foundations of Modern Macroeconomics, Oxford University Press, Oxford.
5. Lewis, M.K. and P.D. Mizan (2000), Monetary Economics, Oxford University press New Delhi.
6. Shapiro, E.(1996), Macro Economics Analysis, Galgotia Publications, New Delhi.
7. Ackley, G. (1978) Macroeconomics, Theory and Policy, Macmillan Publishing Company, New York.
8. Bhargava, R.N. (1971) The Theory and Working of Union Finance in India, Chaitanys Publishing House, Allahabad.
9. Gupta, S.B. (1994), Monetary Economics, S.Chand and Company New, Delhi.
10. Houghton, E.W. (Ed.) (1988), Public Finance, Penguin, Baltimore.
11. Jha, R. (1998), Modern Public Economics, Routledge, London.
12. Mithani, D.M. (1981) Macro-Economic Analysis and Policy, Oxford and IBH, New Delhi.

13. Mithani, D.M. (1998), Modern Public Finance, Himalays Publishing House, Mumbai.
14. Musgrave, R.A. and P.B. Musgrave (1976), Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
15. Shapiro, E. (1996), Macro-Economic Analysis, Galgotia Publications, New Delhi.

(BA) GENERAL SECOND YEAR

Paper-1

COMMUNICATION TOOLS

Max. Marks : 80
Pass Marks : 28
Time : 3 hours

Note : There will be eight questions in the question paper. Students are required to attempt any five questions. All the questions carry equal marks.

Basic Characteristics of Print Media, Tools of Reporting, Sources of News, Qualities of Reporter, Photo Journalist, reporting Staff, News Writing Techniques.

Prominent Daily Newspapers and Magazines, Local News papers, e-Papers, Web-Journalism and Specialized Reporting, Advantages and Disadvantages of of Print Media. Basic Characteristics of Electronic Media,
Doordarshan, Satellite TV Channels,
Akashvani, Community Radio, FM Radio,
Advertisements of Print and Electronic Media,
New Channels Advantages of Disadvantages of Electronic Media.
Characteristics and advantages of Traditional Folk Media, Electronic Media vis-à-vis Traditional Folk Media.
Folk Media as a Communication Tool for Social Change,
Nukkar Natak, Katputli, Sawang, Nautanki, Panihari Harikertan, Tamasha.

Suggested Readings :

1. Introduction to Mass Communication- Keval J. Kumar
2. Shanchar ke saat shopan – Anil Kumar
3. Narula Uma Development Communication-Theory and Practice, Har Anand
4. Gupta V.S. communication and Development concept, New Delhi
5. Tewari, I P Communication Technology and Development, Publication Division, Govt. of India.
6. Handbook of New Media, Live Row

MATHEMATICS

BM-201 Advanced Calculus

Max. Marks 26
Internal Assessment 8
Time 3 Hours

Section-I (3 Question)

Definition of a sequence. Theorems on limits of sequences. Bounded and monotonic sequences. Cauchys convergence criterion. Series of non- negative terms. Comparision tests. Cauchys integral test. Ratio tests. Raabe's de Morgan and Bertrand's tests, Gauss test. Alternating series. Leibnitz's theorem. Absolute and conditional convergence.

Section-II (3 Questions)

Continuity , sequential continuity. Properties of continuous functions. Uniform continuity. Chain rule of differentiability. Mean value theorems and thengeometrical interpretations. Darboux's intermediate theorem for derivatives. Tailor's theorem with various forms of remainders.

Limit and continuity of functions of two variables. Partial differentiation. Change of variables. Euler's theorem on homogeneous functions. Taylor's theorem for functions of two variables, Jacobians.

7. Gorakh Prasad. Internal Calculus, Pothishala Pvt. Ltd., Allababad.
8. S.C. Malik, Mathematical Analysis, Wiley Eastern Ltd., New Delhi.
9. Earl D. Raniville.Infinite Series, The Macmilian Co., New York.
10. Shanti Narayan, A Course of Mathematical Analysis.

BM-202 Differential Equations

Max. Marks: 27
Internal Assessment:6
Time: 3 Hours

Section-I(2 Questions)

Series solutions of differential equations-Power Series method, Bessel, Legendre and Hypergeometric equations, Bassel, Legendre and Hypergeometric functions and their properties- convergence, recurrence and generating relations. Orthogonality of functions. Strum-Liouville problem. Orthogonlaity of eigenfunctions. Reality of eigen values. Orthogonality of Bessel functions and Legendre polynomials.

Section-II(2 Questions)

Laplace Transformation-Linearity of the Laplace transformation. Existence theorem for Laplace transforms. Laplace transforms of derivatives and intergrals. Shifiting theorems. Differentiation and intergration of transforms. Convolution theorem. Solution of Intergral equations and systems of differential equations using the Laplace transformation.

Section-III(3 Questions)

Partial Differential equations of first order. Lagrange's solution. Some special types of equations which can be solved easily by methods other than the general method. Charpit's general method of solution.

Partial differential equations of second and higher orders. Classification of linear partial differential equations of second order. Homogenous and non-homogenous equations with constant coefficients. Partial differential equation reducible to equations with constant coefficients. Monge's methods.

Section-VI(3 Questions)

Calculus of variations- variational problems with fixed boundaries-Euler's equations for functionals containing first order derivative and one independent variable. Extremals. Functionals dependent on higher order derivatives. Functionals dependent on more than one independent variable. Variational problems in parametric form. Invariance of Eulers equation under coordinates transformation. Variational problems with Moving Boundaries-functionals dependent on one and two functions. One sided variations.

Sufficient conditions for an Extremum Jacobi and Legendre conditions. Second variation. Variational Principle of least action.

Note: The examiner is requested to set ten questions in all selecting questions section wise as indicated in the syllabus. The candidate is required to attempt five questions selecting at least one question from each section.

Books Recommended:

1. Erwin Kreyszig, Advanced Engineering Mathematics, John Wiley & Sons Inc., New york, 1999.
2. D.A. Murray, Introductory Course on Differential Equations, Orient Longman,(India), 1967.
3. A.R. Forsyth, A Treatise on Differential Equations, Macmillian and Co. Ltd., London.
4. I.N. Sneddon, Elements of partial Differential Equations, Mc Graw-Hill Book, Company, 1988.
5. Frank Ayres, Theory and problems of Differential Equations, McGraw-Hill Book, Company, 1972.
6. I.N. Sneddon, Special functions on Mathematics, Physics and Chemistry.
7. W.W. Bell, Special functions for Scientists& Engineers.
8. A.S. Gupta, Calculus of Variations with Applications, Prentice-Hall of India, 1997.
9. I.M. Geff and S.V Fomin, Calculus of Variations; Prentice-Hill, Englewood Cliffs (New Jersey).1963.

BM-203 Mechanics

Max. Marks:27
Internal Assessment:6
Time:3 Hours

Section-I(3 Questions)

Analytical conditions of equilibrium of Coplanar forces. Virtual work. Catenary.

Section-II(2 Questions)

Forces in three dimensions. Poinsot's central axis. Wrenches. Null tines and planes. Stable and unstable equilibrium.

Section-III(3 Questions)

Velocities and accelerations along radial and transverse direction, and along tangential and normal directions. Simple harmonic motion. Elastic Strings.

Motion on smooth and rough plane curves. Motion in a resisting medium. Motion of particles of varying mass.

Section-IV(2 Questions)

Central Orbits, Kepler's laws of motion.

Motion of a particle in three dimensions. Acceleration in terms of different coordinate systems.

Note: The examiner is requested to set ten questions in all selecting questions section wise as indicated in the syllabus. The candidate is required to attempt five questions selecting at least one question from each section.

Books Recommended

1. S.L. Loney, Statics, Macmillan Company, London.
2. R.S. Verma, A Text Book on Statics, Pothishala Pvt, Ltd. Allahabad.
3. S.L. Loney, An Elementary Treatise on the Dynamics of a particle and Rigid Bodies, Cambridge University Press, 1956.
4. F. Chorlton, Dynamics, CBS Publishers, New Delhi.

PUBLIC ADMINISTRATION

Outlines of Test

Max. Marks : 80+20

Time : 3 Hours

Syllabus and Courses of Reading

Indian Administration

Note : The question paper will be of 80 marks and it will consist of 9 questions, out of which the candidates would be required to attempt five questions. The first question will b e compulsory which will include eight short questions. The candidates have to attempt any four questions out of the remaining questions. All questions will carry equal marks.

Features of Indian Administration : Its role in the context of Democratic system and Socio-economic development.

Role of the President, Prime Minister and Cabinet in Indian Administration.

Cabinet Secretariat, Organization and Function of Union Minister of Finance and Home.

Role of the Governor, Chief Minister and State Cabinet in State Administration.

Organizations and functions of State Secretariat, Role of Chief Secretary in State Administration.

Preparation of the Indian Budget, its enactment, Parliamentary Control over Public Finance in India. Role of Comptroller and Auditor-General over financial admninistration, composition and function of Public Accounts Committee and Estimate Committee at the Centre.

Civil Service : Recruitment, training, promotion, discipline, morale, Union Public Service Commission.

District Administration : Its feature, role and position of Deputy Commissioner, the Superintendent of Police in District Administration.

Accountability of Indian Administration to the Parliament and Judiciary : Administration and Citizen, Lokpal and Lok-Ayukt.

Books Recommended

1. Hoshiar Singh & Mohinder Singh : Public Administration in India : Theory and Practice, Sterling Publishers, New Delhi.
2. S.R. Maheswari : Indian Administration.
3. P.Sharma : Public Administration in India.
4. K.K. Puri : Indian Administration (Hindi)
5. P.D. Sharma : Bharat Main Lok Prashasan
6. A. Avasthi : Indian Administration.
7. Dr. Swinder Singh : Public Administration in India.
8. G.P. Pilania & Hoshiar Singh : Administration and Social Change
9. Pradeep Sachdeva : Public Administration Jyoti Book Depot Karnal.

B.A.II

POLITICAL SCIENCE

POLITICAL THEORY (OPT.-I)

Syllabus and Courses of Reading

(For Correspondence Session 2014-15)

Maximum Marks: 80
Internal Assessment: 20
Time: 3 Hours

Note: Total 10 questions will be set: four each from Part A and B and two from Part C. Candidates will have to attempt five questions in all selecting at least one question from each part.

Part-A

Nature and Significance of Political Theory.
Power and Authority.
State: Origin and Development.
State: Dominant Perspectives.
Sovereignty.

Part-B

Citizenship, Rights and Liberty.
Equality and Justice.
Democracy.
Development and Welfare State.
Theories of Social Change.

Part-C

Short answer questions, at least four, spread over the entire Syllabus.
Objective Type (multiple choice) questions of 2 marks spread over the whole Syllabus.

Readings:

1. Amal Ray and Mohit Bhattacharya : Political Theory: Institutions and Ideas.
2. S.P. Verma : Modern Political Theory.
3. Rajani Kothari : State and Nation-Building
4. Ralph Miliband : Marxism and Political.
5. Giddens and Held : (eds), Class, Power and Conflict.
6. Jyoti Book Depot Ghulshan Rai

Approved

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B.A IInd year

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8. HISTORY

Outlines of Test

Max. Marks : 80
Internal Assessment : 20
Time : 3 Hours

Option-(i) History of India (1526-1857 A.D.)

Note :

1. The question paper will consist of nine questions. The candidates shall attempt five questions in all. The Question No. 1 will be compulsory. The Candidates shall attempt four more questions selecting at least one from each Unit. Each question will carry 16 marks.

2. The Question No. 1 will be short-answer type containing four questions of equal marks (i.e., 4 marks each) spread over the whole syllabus.

3. The Map Question will be carrying 16 marks (10 for map work and 6 for explanatory note). For visually handicapped candidates, the part relating to the explanatory note will carry full marks.

Unit -I

Establishment of Mughal Empire : Babur

Sher Shah Suri and His Administration

Akbar : Expansion of Empire, Rajput Policy and Religious Policy

Aurangzeb: Relations with Rajputs and Religious Policy

Deccan Policy of the Mughals

Relations of Mughals with the Sikhs

Mughal Administration: Central and Provincial

Institutions: Mansabdari and Jagirdari Systems

Decline of Mughal Empire

Unit - II

Agrarian and Land Revenue System under the Mughals

Currency System of the Mughals

Medieval Social Structure: Ruling Class, Religious Class, Peasants and Artisans

Position of Untouchables and Women

Bhakti and Sufi Movements

Cultural Trends: Education, Literature, Art and Architecture

Pre-British India : Handicraft Industry; Trade and Commerce; Village Community

Unit - III

Rivalry between the French and the British in India

Occupation of Bengal by the British: Battles of Plassey and Buxer

Consolidation of the British Empire: Conquest over Mysore and Marathas; Subsidiary Alliance System and Doctrine of Lapse .

Uprising of 1857: Causes and Consequences

Land Revenue System of the British: Permanent Settlement, Ryotwari Settlement and Mahalwari Settlement

Decline of Handicraft Industries

Introduction of Modern Education

Development of Railways and its Impact

Unit - IV

Maps (India):

Political Conditions of India in 1526

Mughal Empire at the Death of Akbar (1605)

Mughal Empire at the Death of Aurangzeb (1707)

Expansion of British Empire upto 1856

Major Centres of the Uprising of 1857

Suggested Readings :

Banerjee, Hima	*Agrarian Society of the Punjab, 1849-1901*
Banga, Indu and Jaidev (eds.)	*Cultural Reorientation in Modern India*
Basham, A	*The Wonder That Was India Vol. II*
	Indian Society and Making of the British Empire: The New Cambridge History of India, Vol. II
Bipan Chandra	*Colonialism and Nationalism in India*
Brown, Percy	*Indian Architecture : Muslim Period*
Desai, A.R.	*Social Background of Indian Nationalism*
Desai, Z. A.	*Indo-Islamic Architecture*
Gopal, S.	*The Permanent Settlement in Bengal*
Gordon, Stewart	*The Marathas 1600-1818 : The New Cambridge History of India, Vol. V*
Habib, Irfan	*Cambridge Economic History of India, Vol-I*
Habib, Irfan	*Agrarian System in Mughal India*
Hasan, Ibn	*Central Structure of Mughal India*
Kulkarni, A. R.	*Medieval Maharastra*
Kulke, H and D. Rothemund	*History of India*
Lunia, B.N.	*Madhyakalin Bhartiya Sanskrit (Hindi)*
Majumdar, Datta and Raychowdhary	*Advanced History of India*
Moreland, W.H.	*India at the Death of Akbar*
Pandey, A. B.	*Later Medieval India*
Rai, Satya M.	*Bharat Mein Upniveshwad Aur Rashtrawad (Hindi)*
Rashid, A.	*Society and Culture in Medieval India*

Rashid, A.	*Social and Cultural History of Medieval India*
Richards, John F.	*Mughal Empire: New Cambridge History of India, Vol. V*
Rizvi, S.A.A.	*History of Sufism in India, Vol-II*
Satish Chandra	*Medieval India: From Sultanate to the Mughals*
Satish Chandra	*Madhyakalin Bharat (Hindi)*
Satish Chandra	*Mughal Religious Policies : Rajpur to Daccan*
Sen, Sunil, K.	*Agrarian Relations in India 1793-1947*
Shukla, R.L.(ed.)	*Adhunik Bharat Ka Itihas (Hindi)*
Spear, T.G.P.	*History of India, Vol. II*
Spear, T.G.P.	*History of India, Vol. II*
Srinivas, M.N.	*Caste in Modern India and Other Essays*
Stein, Burton	*Peasants, State and Society in Medieval South India*
Tara Chand	*Influence of Islam on Indian Culture*
Tripathi, R. P.	*Some Aspects of Muslim Administration*
Tripathi, R. P.	*Rise and Fall of Mughal Empire*
Verma, H. C. (ed.)	*Madhyakalin Bharat (Hindi), Vols I & II*

B.A Part-II
ਬੀ. ਏ. ਭਾਗ ਦੂਸਰਾ

ਵਿਸ਼ਾ : ਪੰਜਾਬੀ (ਇਲੈਕਟਿਵ)

ਕੁਲ ਨੰਬਰ :100
(ਪੇਪਰ : ੪੦ ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 20)
ਸਮਾਂ: 3ਘੰਟੇ

ਸਲੇਬਸ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਗ੍ਰਹਿ	15 ਨੰਬਰ
2. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ	15 ਨੰਬਰ
3. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (1701-1850)	10 ਨੰਬਰ
4. ਨਿਬੰਧ ਅਤੇ ਪੈਰ੍ਹਾ ਰਚਨਾ	10 ਨੰਬਰ
5. ਛੰਦ (ਦੋਹਰਾ, ਸੋਰਠਾ, ਕੋਰੜਾ, ਸਿਰਖੰਡੀ, ਬੈਂਤ, ਸਵਈਆ, ਕਬਿੱਤ, ਚੌਪਈ ਅਤੇ ਡਿਉਢ) ਅਤੇ ਅਲੰਕਾਰ (ਉਪਮਾ, ਰੂਪਕ, ਅਤਿਕਥਨੀ, ਦ੍ਰਿਸਟਾਂਤ, ਵਿਰੋਧ, ਅਨੁਪ੍ਰਾਸ, ਵਕ੍ਰੋਕਤੀ, ਪ੍ਰਛੋਕਤੀ, ਲੇਸ਼ ਅਤੇ ਲਕੋਕਤੀ)	10 ਨੰਬਰ
6. ਸ਼ਬਦ ਜੁੱਟ ਅਤੇ ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਲਈ ਇਕ ਸ਼ਬਦ	
7. ਸਾਹਿਤਕ ਸ਼ਬਦਾਵਲੀ (200 ਸ਼ਬਦ)	10 ਨੰਬਰ
	10 ਨੰਬਰ

ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ

1.ਕਾਵਿ ਤਰੰਗਾਂ, ਹਰਜੀਤ ਸਿੰਘ ਅਤੇ ਰਤਨ ਸਿੰਘ ਢਿੱਲੋਂ (ਸੰਪਾ.),ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ।
(ਕੇਵਲ ਇਹ ਕਵੀ ਹੀ ਪੜ੍ਹੇ ਜਾਣਗੇ : ਬੁਲ੍ਹੇ ਸ਼ਾਹ, ਮੁਕਬਲ, ਹਾਸ਼ਮ, ਨਜ਼ਾਬਤ, ਅਗਰਾ, ਵਜੀਦ, ਵਾਰਿਸ਼ ਸ਼ਾਹ, ਕਾਦਰ ਯਾਰ, ਪੀਰ ਮੁਹੰਮਦ ਅਤੇ ਸ਼ਾਹ ਮੁਹੰਮਦ)
2.ਕਥਾ ਯਾਤਰਾ, ਗੁਰਦੇਵ ਸਿੰਘ ਅਤੇ ਹਰਸ਼ਰਨ ਕੌਰ (ਸੰਪਾ.), ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ।
3.ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ, ਡਾ. ਰਤਨ ਸਿੰਘ ਜੱਗੀ, (1701-1850 ਤੱਕ) ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।

4. ਸਾਹਿਤਕ ਸ਼ਬਦਾਵਲੀ :

1. Abstract	ਸੂਖਮ
2. Absurd	ਊਲ ਜਲੂਲ
3. Accent	ਲਹਿਜ਼ਾ
4. Actor	ਅਦਾਕਾਰ

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5. Adoption	ਅਪਨਾਉਨਾ
6. Adaptation	ਅਨੁਕੂਲਤਾ/ਰੂਪਾਂਤ੍ਰਣ
7. Aesthetic	ਸੁਹਜ
8. Aesthetics	ਸੁਹਜ ਸ਼ਾਸਤਰ
9. Analysis	ਵਿਸ਼ਲੇਸ਼ਣ
10. Annotation	ਟੀਕਾ
11. Anthologist	ਸੰਗ੍ਰਹਿ ਕਰਤਾ
12. Anthology	ਸੰਗ੍ਰਹਿ
13. Aptitude	ਰੁਚੀ
14. Architect	ਸ਼ਿਲਪਕਾਰ
15. Artistically	ਕਲਾ ਪੱਖ ਤੋਂ
16. Atheism	ਨਾਸਤਿਕਤਾ
17. Assonance	ਸਮਾਨਤਾ
18. Auditorium	ਸ਼ਰੋਤਾ-ਭਵਨ
19. Autobiography	ਸਵੈਜੀਵਨੀ
20. Ballad	ਗਾਧਾ
21. Bibliography	ਪੁਸਤਕ-ਸੂਚੀ
22. Biography	ਜੀਵਨੀ
23. Blank verse	ਮੁਕਤ ਕਾਵਿ
24. Brevity	ਸੰਖੇਪਤਾ
25. Brochure	ਪੁਸਤਿਕਾ
26. Catharsis	ਭਾਵ ਨਿਰੇਚਨ
27. Characterization	ਪਾਤਰ ਚਿੱਤਰਣ
28. Chorus	ਸਮੂਹ ਗੀਤ
29. Chronology	ਕਾਲਕ੍ਰਮ

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30. Clarification	ਸਪੱਸ਼ਟੀਕਰਣ
31. Climax	ਸਿਖਰ
32. Comedy	ਸੁਖਾਂਤ
33. Commentary	ਭਾਸ਼ਣ
34. Communism	ਸਾਮਵਾਦ
35. Concept	ਸੰਕਲਪ
36. Conflict	ਦਵੰਦ
37. Consonant	ਵਿਅੰਜਨ
38. Contemporary	ਸਮਕਾਲੀ
39. Content	ਵਸਤੂ
40. Criterion	ਕਸੌਟੀ
41. Critic	ਆਲੋਚਕ
42. Critical	ਆਲੋਚਨਾਤਮਿਕ
43. Cynicism	ਸਨਕੀ ਹੋਣਾ
44. Definition	ਪਰਿਭਾਸ਼ਾ
45. Dialect	ਉਪਭਾਸ਼ਾ
46. Dialogue	ਵਾਰਤਾਲਾਪ
47. Director	ਨਿਰਦੇਸ਼ਕ
48. Drama	ਨਾਟਕ
49. Dramatist	ਨਾਟਕਕਾਰ
50. Duet song	ਦੋਗਾਣਾ
51. Ego	ਹਉਮੈ
52. Elegy	ਸ਼ੋਕ ਗੀਤ
53. Element	ਤੱਤ
54. Eloquence	ਖੁਸ਼-ਬਿਆਨੀ

55. Emotional	ਭਾਵੁਕ
56. Epic	ਮਹਾਂਕਾਵਿ
57. Essay	ਨਿਬੰਧ
58. Etymology	ਨਿਰੁਕਤ
59. Example	ਮਿਸਾਲ/ਉਦਾਹਰਣ
60. Existentialism	ਹੋਂਦਵਾਦ/ਅਸਤਿਤਵਵਾਦ
61. Expression	ਪ੍ਰਗਟਾਅ
62. Expressionism	ਅਭਿਵਿਅੰਜਨਵਾਦ
63. Facility	ਸਹੂਲਤ
64. Fantasy	ਕਲਪਨਾ
65. Fatalism	ਭਾਗਵਾਦ
66. Farce	ਸਾਂਗ
67. Feudalism	ਜਾਗੀਰਦਾਰੀ
68. Fiction	ਗਲਪ
69. Figure of speech	ਅਲੰਕਾਰ
70. Folklore	ਲੋਕਧਾਰਾ
71. Folksong	ਲੋਕਗੀਤ
72. Free verse	ਮੁਕਤ ਕਾਵਿ
73. Form	ਰੂਪ
74. Genius	ਪ੍ਰਤਿਭਾਸ਼ੀਲ
75. Genealogy	ਵੰਸ਼ਾਵਲੀ
76. Glossary	ਸ਼ਬਦ ਸੂਚੀ
77. Hereditary	ਪਿਤਾ ਪੁਰਖੀ
78. Histrionics	ਸਵਾਂਗ ਕਲਾ
79. Humanism	ਮਾਨਵਵਾਦ

80. Idea	ਵਿਚਾਰ
81. Idealism	ਵਿਚਾਰਵਾਦ/ਆਦਰਸ਼ਵਾਦ
82. Ideology	ਵਿਚਾਰਧਾਰਾ
83. Illusion	ਭਰਮ
84. Imagery	ਬਿੰਬਾਵਲੀ
85. Imagination	ਕਲਪਨਾ
86. Imitation	ਨਕਲ
87. Impressionism	ਪ੍ਰਭਾਵਵਾਦ
88. Impulse	ਮਨੋ ਤਰੰਗ
89. Individual	ਵਿਅਕਤੀ
90. Individualism	ਵਿਅਕਤੀਵਾਦ
91 Inferiority complex	ਹੀਣ ਭਾਵ
92. Instinct	ਪ੍ਰਵਿਤੀ
93. Journalism	ਪੱਤਰਕਾਰੀ
94. Legend	ਦੰਤਕਥਾ
95. Liberalism	ਉਦਾਰਵਾਦ
96. Linguistics	ਭਾਸ਼ਾ ਵਿਗਿਆਨ
97. Linguistics continuity	ਭਾਸ਼ਾ ਦੀ ਅਖੰਡਤਾ
98. Literal	ਸ਼ਾਬਦਿਕ
99. Literature	ਸਾਹਿਤ
100. Lyrical Poetry	ਸਰੋਦੀ ਕਾਵਿ
101. Morphology	ਰੂਪ ਵਿਗਿਆਨ, ਭਾਵਾਂਸ਼ ਵਿਗਿਆਨ
102. Maxim	ਕਹਾਵਤ
103. Melodious	ਮਧੁਰ/ਸੁਰੀਲਾ
104. Metaphor	ਰੂਪਕ

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105. Metaphysical	ਪਰਾਭੌਤਿਕ
106. Meter	ਛੰਦ
107. Modernity	ਆਧੁਨਿਕਤਾ
108. Modernism	ਆਧੁਨਿਕਤਾਵਾਦ
109. Monologue	ਮਨਬਚਨੀ
110. Mystical	ਰਹੱਸਮਈ
111. Mysticism	ਰੱਹਸਵਾਦ
112. Mythology	ਮਿਥਿਹਾਸ
113. Nationalism	ਰਾਸ਼ਟਰਵਾਦ
114. Naturalism	ਪ੍ਰਕਿਰਤੀਵਾਦ
115. Note	ਟਿੱਪਣੀ
116. Novelist	ਨਾਵਲਕਾਰ
117. Novelette	ਛੋਟਾ ਨਾਵਲ
118. Obsolete	ਅਪ੍ਰਚਲਿਤ
119. Obscene	ਅਸ਼ਲੀਲ
120. Opera	ਸੰਗੀਤ ਨਾਟਕ
121. Optimist	ਆਸ਼ਾਵਾਦੀ
122. Originality	ਮੌਲਿਕਤਾ
123. Orthodox	ਕੱਟੜਪੰਥੀ
124. Paradox	ਵਿਰੋਧਾਭਾਸ
125. Paragraph	ਪੈਰ੍ਹਾ
126. Parody	ਨਕਲ,ਵਿਅੰਗਕਾਵਿ
127. Pathetic	ਕਰੁਣਾਮਈ/ਭਾਵਨਾ ਪੂਰਨ
128. Pathos	ਕਰੁਣਾ ਰਸ
129. Personality	ਵਿਅਕਤੀਤਵ

130. Personification	ਸਮੂਰਤੀਕਰਨ
131. Pessimist	ਨਿਰਾਸ਼ਾਵਾਦੀ
132. Philologist	ਭਾਸ਼ਾਸ਼ਾਸ਼ਤਰੀ
133. Phoneme	ਧੁਨੀਗ੍ਰਾਮ
134. Phonetic Law	ਧੁਨੀ ਨਿਯਮ
135. Phonology	ਧੁਨੀ ਵਿਗਿਆਨ
136. Playwright	ਨਾਟਕਕਾਰ
137. Poetical insight	ਕਾਵਿਕ ਸੂਝ
138. Poetical Effect	ਕਾਵਿਕ ਪ੍ਰਭਾਵ
139. Polyglot	ਬਹੁਭਾਸ਼ੀ
140. Suffix	ਪਿੱਛੇਤਰ
141. Prefix	ਅਗੇਤਰ
142. Progressive	ਪ੍ਰਗਤੀਸ਼ੀਲ/ ਅਗਾਂਹਵਧੂ
143. Prose	ਵਾਰਤਕ
144. Producer	ਨਿਰਮਾਤਾ
145. Production	ਪੇਸ਼ਕਾਰੀ
146. Prosody	ਪਿੰਗਲ/ਛੰਦ ਸ਼ਾਸਤਰ
147. Psycho-Analysis	ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ
148. Realism	ਯਥਾਰਥਵਾਦ
149. Rhetoric	ਅਲੰਕਾਰ ਸ਼ਾਸਤਰ
150. Rhyme	ਬਾਲਗੀਤ
151. Rhythm	ਲੈਅ
152. Romanticism	ਰੁਮਾਂਸਵਾਦ
153. Satire	ਵਿਅੰਗ
154. Skepticism	ਸੰਕਾਵਾਦ

155. Script	ਲਿਪੀ
156. Secularism	ਧਰਮ ਨਿਰਪੇਖਤਾ
157. Semantics	ਅਰਥ ਵਿਗਿਆਨ
158. Sensibility	ਸੰਵੇਦਨਾ
159. Sensitivity	ਸੰਵੇਦਨਸ਼ੀਲਤਾ
160. Smile	ਉਪਮਾ
161. Size	ਆਕਾਰ
162. Socialism	ਸਮਾਜਵਾਦ
163. Soliloquy	ਇਕੋਂਵਚਨ
164. Spiritualism	ਅਧਿਆਤਮਵਾਦ
165. Stage	ਰੰਗ ਮੰਚ
166. Stream of consciousness	ਚੇਤਨਾ ਪ੍ਰਵਾਹ
167. Structure	ਸੰਰਚਨਾ/ ਬਣਤਰ
168. Style	ਸ਼ੈਲੀ
169. Sublime	ਉਦਾਤ
170. Syllable	ਅੱਖਰ
171. Symbolism	ਪ੍ਰਤੀਕਵਾਦ
172. Synopsis	ਆਰਜ਼ੀ ਰੂਪ ਰੇਖਾ
173. Syntax	ਵਾਕ ਰਚਨਾ/ ਵਾਕ ਵਿਚਾਰ
174. Synthesis	ਸੰਸਲੇਸ਼ਣ
175. Tactile image	ਸਜੀਵ-ਬਿੰਬ
176. Technique	ਵਿਧੀ
177. Terminology	ਪਾਰਿਭਾਸ਼ਿਕ ਸ਼ਬਦਾਵਲੀ
178. Tradition	ਪਰੰਪਰਾ
179. Traditionalism	ਪਰੰਪਰਾਵਾਦ

180. Translation	ਅਨੁਵਾਦ
181. Treatise	ਨਿਬੰਧ
182. Unities	ਏਕਤਾਵਾਂ
183. Unity of Action	ਕਾਰਜ ਦੀ ਏਕਤਾ
184. Unity of Impression	ਪ੍ਰਭਾਵ ਦੀ ਏਕਤਾ
185. Unity of Space	ਸਥਾਨ ਦੀ ਏਕਤਾ
186. Unity of Time	ਸਮੇਂ ਦੀ ਏਕਤਾ
187. Utilitarianism	ਉਪਯੋਗਤਾਵਾਦ
188. Verse	ਪਦ
189. Versatile	ਸਰਬਾਂਗੀ
190. Villain	ਖਲਨਾਇਕ
191. Vision	ਅੰਤਰ ਦ੍ਰਿਸ਼ਟੀ
192. Visual Image	ਦ੍ਰਿਸ਼ਟੀ ਪਰਤ, ਬਿੰਬ
193. Vocabulary	ਸ਼ਬਦ ਕੋਸ਼
194. Vowel	ਸਵਰ
195. Vulgarity	ਅਸ਼ਲੀਲਤਾ
196. Work	ਕਾਰਜ, ਕੰਮ, ਰਚਨਾ
197. Waiting list	ਉਡੀਕ ਸੂਚੀ
198. With effect from	ਮਿਤੀ ਤੇ
199. With reference	ਦੇ ਹਵਾਲੇ ਨਾਲ
200. Your faithfully	ਵਿਸ਼ਵਾਸ ਪਾਤਰ

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. ਕਾਵਿ ਤਰੰਗਾਂ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਕਵੀਆਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਕਵਿਤਾ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਨਾਲ ਸਬੰਧਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਵੇ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਸੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 200-250 ਸ਼ਬਦਾਂ ਵਿਚ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ 5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਦਾ ਹੋਵੇਗਾ। ਚਾਰ ਪੈਰ੍ਹੇ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਲਈ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਦੋ ਕਰਨੇ ਹੋਣਗੇ। ਇਹ ਸਵਾਲ 10 (5+5) ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

2. ਕਥਾ ਯਾਤਰਾ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਕਹਾਣੀਕਾਰਾਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ-ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਕਹਾਣੀ ਪਰੰਪਰਾ ਵਿਚ ਯਣਦੇ ਸਥਾਨ ਨਾਲ ਸੰਬੰਧਿਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਏ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਸੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 250-300 ਸ਼ਬਦਾਂ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ 5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਕਹਾਣੀਆਂ ਦੇ ਵਿਸ਼ੇ-ਵਸਤੂ, ਸਾਰ, ਪਾਤਰ-ਚਿੱਤਰਣ, ਸਾਹਿਤਕ ਮੁੱਲਾਂਕਣ ਜਾਂ ਅਜਿਹਾ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾ ਸਕਦਾ ਹੈ ਜੋ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀ ਕਹਾਣੀ ਦੇ ਮੁੱਲ ਨੂੰ ਪ੍ਰਗਟ ਕਰਦਾ ਹੋਵੇ। ਅੰਦਰੂਨੀ ਛੂਟ ਨਾਲ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

3. ਦੋ ਨਿਬੰਧ ਮੂਲਕ ਪ੍ਰਸ਼ਨ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ (1700-1850 ਤੱਕ) ਸੰਬੰਧੀ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੇ ਦੋਹਾਂ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਹੈ। ਇਸ ਵਿਚ ਪ੍ਰਸ਼ਨ ਸਿਰਫ਼ ਸਾਹਿਤਕ ਧਾਰਾਵਾਂ ਨਾਲ਼ ਸੰਬੰਧਿਤ ਹੀ ਪੁੱਛੇ ਜਾਣਗੇ (ਭਾਵ ਕਿਸੇ ਇਕ ਵਿਅਕਤੀਗਤ ਲੇਖਕ ਬਾਰੇ ਪ੍ਰਸ਼ਨ ਨਹੀਂ ਪੁੱਛਿਆ ਜਾਵੇਗਾ)। ਇਹ ਪ੍ਰਸ਼ਨ 10 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ।

4. ਪੈਰ੍ਹਾ ਰਚਨਾ ਅਤੇ ਨਿਬੰਧ ਨਾਲ ਸੰਬੰਧਿਤ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੂੰ ਕੋਈ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਹੋਵੇਗਾ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ ਕੁਲ 10 ਨੰਬਰ ਹੋਣਗੇ।

5. ਸਲੇਬਸ ਵਿਚ ਨਿਰਧਾਰਿਤ ਕੀਤੇ ਗਏ ਛੰਦਾਂ ਵਿਚੋਂ ਕੋਈ ਦੋ ਜਾਂ ਤਿੰਨ ਛੰਦ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਕਿਸੇ ਇਕ ਛੰਦ ਬਾਰੇ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਸਵਾਲ 5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਇਸ ਤਰ੍ਹਾਂ ਸਿਲੇਬਸ ਵਿਚ ਨਿਰਧਾਰਿਤ ਕੀਤੇ ਅਲੰਕਾਰਾਂ ਵਿਚੋਂ ਦੋ ਜਾਂ ਤਿੰਨ ਬਾਰੇ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਕਿਸੇ ਅਲੰਕਾਰ ਬਾਰੇ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਸਵਾਲ ਵੀ 5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਇਸ ਤਰ੍ਹਾਂ ਇਨ੍ਹਾਂ ਸਵਾਲਾਂ ਦੇ ਕੁੱਲ 10 ਨੰਬਰ ਦਿੱਤੇ ਜਾਣਗੇ।

6. ਵਿਆਕਰਣ ਵਿਚ 5 ਨੰਬਰ ਦੇ ਸ਼ਬਦ ਜੁੱਟ ਅਤੇ 5 ਨੰਬਰ ਦੇ ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਲਈ ਇਕ ਸ਼ਬਦ ਬਾਰੇ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਵਿਆਕਰਣ ਦੇ ਕੁੱਲ 10 ਨੰਬਰ ਹੋਣਗੇ।

7. ਸਾਹਿਤਕ ਸ਼ਬਦਾਵਲੀ ਵਿਚੋਂ 10 ਅੰਗਰੇਜ਼ੀ ਸ਼ਬਦਾਂ ਦੇ ਸਮਾਨਾਰਥੀ ਪੰਜਾਬੀ ਸ਼ਬਦ ਲਿਖਣੇ ਹੋਣਗੇ। ਘੱਟੋ ਘੱਟ 15 ਸ਼ਬਦ ਦਿੱਤੇ ਜਾਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ ਵੀ 10 ਨੰਬਰ ਦਾ ਹੈ।

B.A 2nd Year

सहायक पाठ्य-ग्रन्थ :

(1) चारुदत्त : भास

(2) संस्कृतशिक्षकसारणी : श्रीराम आचार्य

(3) बृहद् अनुवादचन्द्रिका : चक्रधरहंस नौटियाल

B.A

7. संस्कृत
(ऐच्छिकम्)

पूर्णांकः 80
आन्तरिक मूल्यांकन : 20
समय : 3 घण्टे

Unit-I : **संस्कृत-वाग्व्यवहारः**

एकक-1 'संस्कृत-व्यवहार-साहस्री' (प्रकाशक-संस्कृत-भारती, माता मन्दिर गली, झण्डेवालान, नई दिल्ली) पुस्तक से 9 से 16 विषयों तक संस्कृत में सरल प्रश्नोत्तररूप में लिखित परीक्षा । (8 अंक)

(9 .परीक्षा, 10. चलच्चित्रम्, 11. शिक्षकाः, 12. स्त्रियः, 13. पाकः, 14. वेशभूषणानि, 15. कार्यालयः, 16. स्वास्थ्यम्)

Unit-II : **एकक-2 संस्कृत-ग्रन्थानुशीलनम्**

एकक-2

(क) रामायणम् (बालकाण्डम् प्रथमः अध्यायः) 8

(ख) श्रीमद्भगवद्गीता (द्वितीय : अध्यायः) 10

(ग) रघुवंशम् (द्वितीय : सर्गः) 10

(श्लोकों की व्याख्या व आलोचनात्मक प्रश्न, सार आदि)

Unit-III : संस्कृत व्याकरणम्

एकक-3

1. समास-अव्ययीभाव, कर्मधारय, कर्मवाच्य, द्वन्द्व, बहुव्रीहि 8
2. वाच्य-कर्तृवाच्य, कर्मवाच्य, भाववाच्य 5
3. कृत्प्रत्यय-कत्वा, तुमुन्, ण्यत्, यत्, क्त, क्तवतु, शतृ, शानच्, तव्यत्, अनीयर् 5
4. तद्धितप्रत्यय-मतुप्, इनि, ठक्, त्व, तल्, छ 5
5. णिजन्तरूप व सन्नन्तरूप भू, पठ्, गम, पा, लिख, श्रु, कृ, दा, स्थ, हन्, धातुओं के लट् लकार प्रथम पुरुष, एकवचन में 5

Unit-IV : लघुसिद्धान्तकौमुदी

एकक-4 प्रत्याहारसूत्र तथा संज्ञा प्रकरण सोदाहरण सूत्र व्याख्या 8

Unit-V : अनुवाद : पत्रलेखनम् च

एकक-5

(अ) हिन्दी से संस्कृत में सरल अनुवाद 10

(आ) सरल विषयों पर सरल संस्कृत में पत्र-लेखन 8

सहायक पाठ्य-ग्रन्थ

1. रामायण : गीता प्रेस, गोरखपुर
2. गीता : गीता प्रेस, गोरखपुर
3. रघुवंशम् : महाकवि कालिदास
4. लघुसिद्धान्तकौमुदी : श्रीवरदराज आचार्य
5. संस्कृतशिक्षणसारणी : श्रीराम आचार्य

B.A.-II

Research Methodology

Maximum Marks – 100
Theory – 80
Internal Assessment – 20
Time – 3 hours

Note: - The Paper setter shall set 8 questions from all four units with internal choice. However, one compulsory question of short answer type would be set from the entire syllabus comprising four sub-questions of four marks each under 5th Unit. Such way, the examinees are required to attempt five questions in all, of 16 marks each.

UNIT – I

Basic Concepts in Social Research: Meaning, Scope, Types and Significance of Social Research; Concept, Hypothesis; Interplay of Fact and Theory.

UNIT – II

Scientific Study of Social Phenomena: Nature, Characteristics and Steps of Scientific Method; Research Design: Meaning and Types; Social Survey.

UNIT – III

Methods and Techniques of Data Collection: Observation, Interview, Case Study Method; Questionnaire and Schedule; Sampling and Types.

UNIT – IV

Data, Classification and Statistics: Sources and Types of Data: Primary and Secondary; Classification and Tabulation of Data; Measures of Central Tendency-Mean, Median and Mode; Use of Computers in Social Research.

Readings:

Ahuja, Ram (2001): Research Methods, New Delhi: Rawat Publication.

Goode, W.J. and P.K.Hatt (1952): Methods in Social Research, New York: McGraw International.

Seltiz, Claise et al; (1959): Research Methods in Social Relation, New York: Henry Holt and Co.

Srivastava, Prakash G.N.(1994): Advanced Research Methodology, Delhi: Radha Publication.

Thakur, Devender(2003): Research Methodology in Social Science, Delhi: Deep and Deep Publication.

Young, P.V.(1988): Scientific Social Survey and Research, New Delhi Prentice Hall.

26/10/13 25/10/13 25.10.13

BA. (General) Part-III

1. ENGLISH

PAPER-A

Max. Marks : 45
Int. Evaluation : 5
Time : 3 Hours

Prescribed Books :

1. Poetry : The Eternal Muse edited by Dr. Brajesh Sawhney, Reader, Dept. of English, K.U.K. and Dr. Neena Malhotra, Head, Dept. of English, S.D. College Ambala Cantt.

2. Play : Macbeth by William Shakespeare
The following editions are recommended :
   (i) New Cambridge Shakespeare
   (ii) New Arden
   (iii) Verity Edition
   (iv) Clarendon
   (v) Signet Classics

Scheme of Examination :

Q.1 (a) One passage (with internal choice) for explanation with reference to the context from The Eternal Muse will be set.
(b) Similarly, there will be one passage (with internal choice) for explanation with reference to the context from Macbeth. (4+4=8 marks)

Q.2. Two short questions (with internal choice) each on potery and the play requiring critical understanding of the poems and the play. (4+4 = 8 marks)

Q.3. One essay-type question (with internal choice) on the book of Poems requiring first-hand appreciation of the poems. (10 marks) 8 marks

Q.4. One essay-type question (with internal choice) on the play, requiring first-hand appreciation of the text (including appreciation of the theme/character/plot). (9 marks) 8 marks

Q.5 (a) 4 out of 10 short-answer type questions on the poems in The Eternal Muse to be attempted. (5 marks)
(b) 4 out of 10 short-answer type questions on Macbeth shall have to be attempted. (5 marks)

4 marks
4 marks

2 - no 2
2 - 4 x 2 (each)

Amendment in allocation of marks recommended subject to the approval of the UGBOS.

PAPER-B

Max. Marks : 45
Int. Evaluation : 5
Time : 3 Hours

Prescribed Books :

1. A Text-book of English Grammar and Composition edited by
   (i) Dr. S.C. Sharma, Head, Dept. of English, University College, Kurukshetra.
   (ii) Sh. Shiv Narain, Sr. Lecturerr in English, University College, Kurukshetra.
   (iii) Sh. Pankaj Sharma and (iv) Dr. Gulab Singh, Hindu College, Sonepat.

   The Text Book of Grammar will focus on the following items :
   (a) Essay : 400 words — 10 marks
   (b) Letter/Application (Exlcuding personal letters) — 8 marks
   (c) Precis — 7 marks
   (d) Vocabulary : Synonyms, Antonyms, One Word Substitution — 5 marks
   (e) Correction of incorrect sentences/Do as directed — 5 marks

2. The Spectrum of Life : A Selection of Modern Essays consisting of 10-12 essays of moderate length to be edited by Dr. M. K. Bhatnagar, Prof. and Head, Dept. of English, M.D.U. Rohtak. (10 marks)

Scheme of Examination :

Q.1 (a) The students shall be required to attempt an essay of approximately ~~300~~ 350 words, on any topic out of the four given in the question-paper. The topics may be of description, literary or general nature. (10 marks) — 8 marks

Q.2. One question with internal choice will be set asking the students to write a letter/application. (Personal/Business Correspondence) (8 marks) — 6 marks

Q.3. Precis of a given prose apssage of about 150 to 200 words (with internal choice). (~~7 marks~~) 6 marks

Q.4. Grammar (Vocabulary : Synonyms, Antonyms, One-word-substitution and correction of incorrect sentences including items covered in the exercises contained in the book of essays). (10 marks)

Q.5. One essays type question with internal choice on **The Spectrum of Life : A Selection of Modern Essays.** (10 marks)

Amendments Recommended Subject to the approval of the UG.BOS.
Dept. Chairman

2. हिन्दी (अनिवार्य)

पूर्णांक : 100
आन्तरिक मूल्यांकन : 10
समय : 3 घण्टे

1. हरियाणवी लोकधारा :

1.1 हरियाणवी लोकधारा पुस्तक से व्याख्या के लिए चार अवतरण पूछे जायेंगे। परीक्षार्थियों को इनमें से दो की सप्रसंग व्याख्या करनी होगी। प्रत्येक व्याख्या सात सात अंकों की होगी।

1.2 हरियाणवी लोकधारा पाठ्य-पुस्तक में से किन्ही दो रचनाकारों का साहित्यिक परिचय पूछा जायेगा जिनमें से परीक्षार्थियों को एक का परिचय लिखना होगा। यह प्रश्न आठ अंकों का होगा।

1.3 पाठ्य-पुस्तक की 'अनुशीलनी' में से निर्धारित प्रश्नों में से कोई दो प्रश्न पूछे जायेंगे, जिनमें से एक का उत्तर देना होगा। यह प्रश्न आठ अंकों का होगा।

1.4 पाठ्य-पुस्तक के पृष्ठ संख्या 109 से 120 (हरियाणवी लोकगीत) तथा पृष्ठ संख्या 121 से 149 तक (हरियाणवी लोककथा) नामक पाठ छात्रों के लिए पठनयी रहेंगे, वार्षिक परीखा में इनमें से कोई प्रश्न नहीं पूछा जायेगा।

1.5 व्याख्या के लिए पद्यांश सभी निर्धारित-27 कवियों में से कहीं से भी पूछे जा सकते है।

1.6 साहित्यिक परिचय तथा प्रश्नोत्तर केवल निम्नलिखित 11 कवियों में से ही पूछे जायेंगे :-1. गरीबदास, 2. नितानन्द, 3. अहमदबख्श थानेसरी, 4. दीपचन्द, 5. बाजेभगत, 6. लख्मीचन्द, 7. मांगेराम, 8. रामिकशन व्यास, 9. फौजी मेहर सिंह, 10. जगदीश चन्द्र वत्स, 11. हरिकेश पटवारी।

2. प्रयोजनमूलक हिन्दी और काव्यांग :

2.1 प्रयोजन-मूलक हिन्दी और काव्यांग पुस्तक से चार प्रश्न पूछे जायेंगे, जिनमें से परीक्षार्थियों को दो प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न दस-दस अंकों का होगा।

2.2 काव्यांग से रस (विविध रस भेद और अलंकार) अनुप्रास, श्लेष, यमक, वीप्सा, पुनरूक्ति प्रकाश, उपमा, रूपक, उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण निर्धारित है। इनमें दो रसों के और दो अलंकारों के उदाहरण सहित लक्षण पूछे जायेंगे। परीक्षार्थियों को एक रस और एक अलंकार के सोदाहरण लक्षण लिखने होंगे। यह प्रश्न $4\frac{1}{2} + 4\frac{1}{2} = 9$ अंकों का होगा।

2.3 निर्धारित समग्र पाठ्य-पुस्तक से छः लघूत्तरी प्रश्न पूछे जायेंगे। जिनमें से परीक्षार्थियों को

...प्रश्नों के उत्तर (250 शब्दों में) देने होंगे। प्रत्येक प्रश्न तीन अंकों का होगा। पूरा प्रश्न-पत्र अंकों का होगा।

4. हिन्दी साहित्य का इतिहास (आदिकाल एवं मध्यकाल) इसमें से चार प्रश्न पूछे जायेंगे, जिनमें से परीक्षार्थियों को दो प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न आठ आठ अंकों के होंगे। हिन्दी साहित्य का इतिहास (आदिकाल एवं मध्यकाल) का पाठ्य विषय :

(1) हिन्दी साहित्य का इतिहास काल विभाजन, (2) आदिकाल का नामकरण, (3) आदिकाल की परिस्थितियाँ, (4) आदिकाल की प्रवृतियाँ, (5) भक्तिकालीन परिस्थितियाँ, (6) संत-काव्यधारा की विशेषताएं, (7) प्रेमाश्रयी काव्यधारा की विशेषताएँ, (8) रामकाव्यधारा की विशेषताएं, (9) कृष्णकाव्यधारा की विशेषताएं, (10) भक्तिकाल : स्वर्णयुग, (11) रीतिकाल की परिस्थितियाँ, (12) रीतिकाल का नामकरण (13) रीतिकाल की विशेषताएँ, (14) रीतिमुक्त काव्य की विशेषताएं।

Amendments recommended subject to the approval of UGBOS in Hindi. Rao Shahi

पाठ्य ग्रन्थ :

1. हरियाणवी लोकधारा, कुरुक्षेत्र विश्वविद्यालय, कुरुक्षेत्र
2. प्रयोजनमूलक हिन्दी और काव्यांग
3. हिन्दी साहित्य का इतिहास, म.द.वि. रोहतक (रामचन्द्र शुक्ल)

3. हिन्दी (ऐच्छिक)

Recommended for purchase Arlu 8/01/2014

पूर्णांक : 90
आन्तरिक मूल्यांकन : 10
समय : 3 घण्टे

1. आंसू : 30 अंक

प्रदत्त चार काव्यांशों में से दो की सप्रसंग व्याख्या करनी होगी। पूछे गये दो समीक्षात्मक प्रश्नों में से एक का उत्तर देना होगा। व्याख्या के लिए बीस (10+10) तथा समीक्षात्मक प्रश्न के लिए दस अंक नियत है।

2. महाभोज : 20 अंक

प्रदत्त दो गद्यांशों में से किसी एक की सप्रसंग व्याख्या करनी होगी। पूछे गए दो समीक्षात्मक प्रश्नों में से एक का उत्तर देना होगा। व्याख्या के लिए दस तथा समीक्षा के लिए दस अंक नियत है।

3. हिन्दी साहित्य का इतिहास (आधुनिक काल) 30 अंक

निर्धारित प्रश्नों (आधुनिक युग की परिस्थितियाँ, भारतेन्दुयुगीन काव्य, द्विवेदीयुगीन काव्य,

4.	Barraclough, G.	:	An Introduction to Contemporary History (Penguin 1968).
5.	Bronowski, J. and Bruce Mazlish	:	The Western Intellectual Tradition (Ayer Co Publication, 1960).
6.	Bury, J.T.L.	:	France, 1840 (Routledge, Chapman and Hall, 19).
7.	Carr, E.H.	:	The Bolshevik Revolution, 1917-23, 3 vols (Macmillan 1950, 1951 and 1953).
6.	Davies, H.A.	:	Outline History of the World ed.
7.	Fisher, H.A.L.	:	A History of Europe (London, Fontana Library, 1969).1
8.	Henderson, O.P.	:	The Industrial Revolution on the Continent.
9.	Hill, Christopher	:	From Reformation to Industrial Revolution (Penguin, 1970).
10.	Hill Christopher	:	Lenin and the Russian Revolution, (Penguin 1978).
11.	Hinsley, F.H. (ed.)	:	Modern History : Material Progress and World Wide Problems.
12.	Joll, James	:	Europe Since 1870 : An International History (Harper-Row, 1973).
13.	Langer, W.L.	:	Diplomacy of Imperialism.
14.	Langer, W.L.	:	European Alliances and Alignments (Greenwood, 1977).
15.	Lefebvre, Georges	:	Coming of the French Revolution (Princeton, 1989).
16.	Palmer, R.A. and Cotton Joel.	:	A History of Modern World, 6th ed. (McGraw, 1982)
17.	Parks, H.B.	:	The United States of America.
18.	Randal, J.G. and	:	The Civil War of Reconstruction, 2nd Ed. (rev.) Health 1969.
19.	Rolls, Eric	:	History of Economic Thought
20.	Rude, George	:	Revolutionary Europe (1984).
21.	Saboul, A.	:	The French Revolution.
22.	Stavrianes, L.S.	:	The World Since 1500 (1928).
23.	Taylor, A.J.P.	:	The Origins of the Second World War.
24.	Taylor, A.J.P.	:	The Struggle for Mastery in Europe (OUP, 1954).
25.	Thompson, David,	:	Euorpe Since Napolean (Penguin, 1957, 1966).

9. ECONOMICS

Max. Marks : ~~90~~ 80
Int. Evaluation : ~~10~~ 20
Time : 3 Hours

Note : The question-paper will carry a maximum of 90 marks and it will consist of nine questions out of which the candidate would be required to attempt five questions.

Each question will carry (18) marks. The first question will be compulsory and it will include objective type questions (10 marks) and short definitional type questions (8 marks) uniformly spread over both parts of the syllabus. The remaining 8 questions will include 2 questions from each of the four units and candidate would be required to attempt one question from each unit.

Preamble :

The Part-A of this paper entitled "Development and Environmental Economics" is intended to enable the students to know about theories of growth and development. This part also deals with issues relating to sustainable development, environmental protection and pollution control.

The Part-B of this paper entitled "International Economics" is designed to provide the students thorough understanding and deep knowledge about the basic principles that tend to govern the free flow of trade in goods and services at the global level. It also lays stress both on theory and applied nature of the subject that have registered rapid changes during the last decade.

Part-A
Development and Environmental Economics

Unit-I

Economics growth and development; Determinants and measurment of development: Vicious circle of poverty. Development with unlimited supply of labour, Balanced and unbalanced growth, Critical minimum effort thesis (Harvery Leibenstein).

Unit-II

Environment as a necessity and luxury; Population-environment linkage: Market failure in case of environmental goods; Environment as a public good; Prevention and control of pollution: Environmental legislation, Meaning, importance and indicators of sustainable development.

Part-B
International Economics

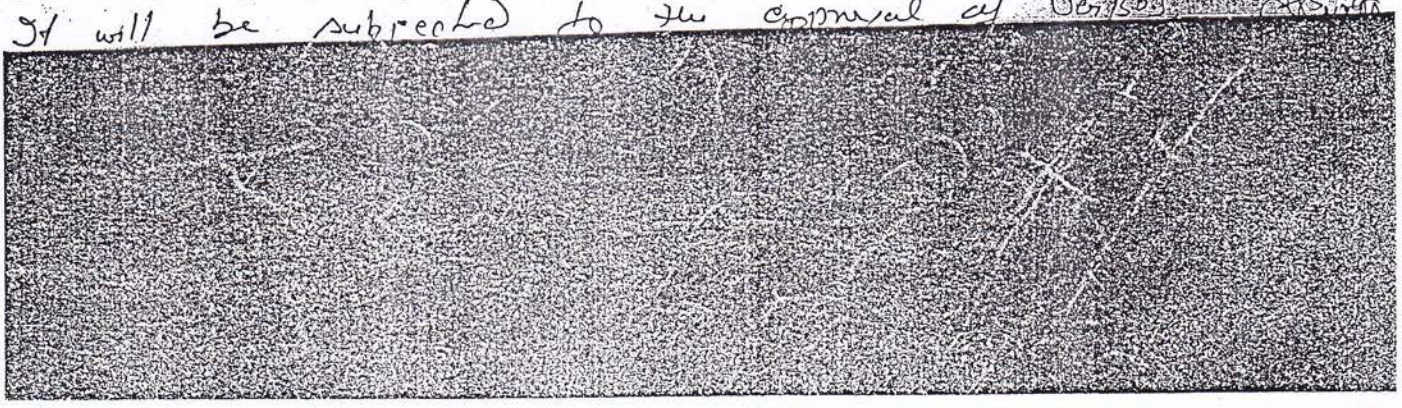
Unit-III

Inter-regional and international trade. Comparative advantage theory: Heckcher-Ohlin theroy; Grain from trade-their measurment and distribution: Trade as an engine of economic growth.

Unit-IV

Meaning of balance of paymens equilibrium; Causes and effects of BOP disequilibrium

the scheme of examinations may please be followed as for the pattern of B.A. IInd Year Economics exam. of distance It will be subjected to the approval of UGBOS.



Books :

1.	Finkle, Jason L. and C. Alison McIntosh (ed)	:	The New Politics of Population, The Population Concile, New York, 1994.
2.	Hatcher, Robert et al.	:	The Essentials of Contraceptive Technology Baltimore Johnltophins Schools of Puple.
3.	Bose, Ashish	:	Demography Diversity in India, B. R. Publishing Corporation, Delhi, 1991.
4.	Premi, M. K. et. al	:	An Introduction to Social Demography, Vikas Publishing House, Delhi; 1983.
5.	Rajendra Sharma	:	Demography and Population Problems, Atlantic Publishers, New Delhi, 1997.
6.	Srivastava, O. S.	:	Demography and Population Studies, Vikas Publishing House, New Delhi, 1997.
7.	Chandrasekhar, S. (Ed.)	:	Infant Mortality, Population Growth and Family Planning in India, Georage Allen and Unwin Ltd., London, 1974.
8.	Hans Raj	:	India's Population, Asia Publishing House, Bombay, 1969.
9.	Banarjee, D.	:	Family Planning in India, A critique Perspectives peoples Publishing house, New Delhi.
10.	Davidas, Heer	:	Society population, Prentice-Hall of India Pvt. Ltd., New Delhi, 1979.
11.	Agarwal, S.N.	:	Population Studies with Special Reference to India, Surjeet publications, New Delhi, 1989.

12. PUBLIC ADMINISTRATION

Option-II : Local Government and Administration in India

Max. Marks : ~~90~~ 80
Int. Evaluation : ~~10~~ 20
Time : 3 Hours

Note : The candidate will be required to attempt five questions, at least one question from each unit.

Syllabus and Courses of Reading

Unit 1: One compulsory question of 18 marks with 9 objective type questions.

Sahib Singh & Surinder Singh.
Local Govt in India
New Acady Publishing Co.

There will be no change in the existing Units I to IV except one now to be renumbered as Units II to V due to addition of Unit I as above.

Unit-2 : *Local Government* : meaning and significance, evolution of Local Government in India since 1882.

Municipalities : composition, functions, finances, personnel, general working of municipal bodies with special reference to Haryana and Punjab. State Government's control over municipal bodies.

Unit-3 : State Department and Directorate of Municipal bodies, its organsiation and functions.

Role of the Ministry of Urban Development as well as the Central Council of local Self-Government in regard to municipalities.

Municipal Corporation : Composition, functions and finances. Town and Metropolitian Planning in India. 74th Constitutional Amendment Act, 1992.

Unit-4 : *District Administration* : its features, purpose, problem, Deputy Commissioner, his role and position, administrative change in the context of planning and Development at district level, Divisional Comissioner, his role and position, state Headquarter's control over District Administration.

Unit-5 : *Rural Local Government* : Zila Parishad, Panchayat Samiititi, Panchayat. Their composition, functions finances, personnel, State Government's control over their working, role of political parties in panchayati Raj. 73rd Constitutional Amendment Act, 1992.

Role of State and Union Government in regard to Panchayati Raj institutions in Policy assistance, training and general control. Problems of rural-urban relationship.

Books Recommended :

1. Maheshwari, S. R. : Local government in India.
2. Maheshwari, S. R. : Bharat Mein Sthaniya Shasan.
3. Puri, K.K. and Barara, G.S. : Local Government in India (Hindi).
4. Sharma, Harish Chander : Bharat Mein Sthaniya Prashasan.
5. Khanna, R.L. : Municipal Government and Administration in India.
6. Avasthi, R. L. : Municipal Administration in India.
7. Khera S. S. : District Administration in India.
8. Bhattacharya Mohit : Essays in Urban Government
9. Khanna, R. L. : Panchayati Raj in India
10. Jain, S.C. : Community Development and Panchayati Raj in India
11. Hoshiar Singh and Khan Ziaduin : Leadership in Municipal Government.
12. Pardeep Sachdeva : Public Administration, Jyoti Book Depot, Karnal

13. MATHEMATICS

OUTLINES OF TEST

			Max. Marks	Time
Paper-I BM-301	:	Analysis	30+3	3 Hours
Paper-II BM-302	:	Abstract Algebra	30+4	3 Hours
Paper-III BM-303	:	Programming Analysis & Numerical Analysis	2+2	3 Hours
		Computer Practical in C based on Numerical Analysis.	10	

Paper-I ; BM-301 : Analysis

Max. Marks : 30
Time : 3 Hours

Section-I (3 Questions)

Riemann integral, Integrability of continuous and monotonic functions. The fundamentals theorem of integral calculus. Mean value theorems of integral calculus.

Improper integrals and their convergence., Comparison tests. Abels's and Dirichlet's tests. Frullani's integral. Integral as a function of a parameter. Continuity, derivability and integrability of an integral of a function of a parameter.

Section-II (2 Questions)

Series of arbitrary terms. Convergence, divergence and Oscillation. Abel's Dirichlet's tests. Multiplication of series. Doble series.

Fourier series, Fourier expansion of piece-wise monotonic functions.

Partial derivation and differentiability of real-valued functions of two variables. Schwarz and Young's theorem. Implicit function theorem.

Section-III (2 Questions)

Stereographic projection of complex numbers.

Continuity and differentiability of Complex functions Analytic functions.

Cauchy-riemann equations. Harmonic functions. Elementary functions. mapping by elementary functions.

Mobius transformations. Fixed points Cross ratio. Inverse Points and critical mappings.

Section-IV (3 Questions)

Definition and examples of metric spaces. Neighbourhoods. Limit points. Interior points. Open and closed sets. Closure and interior. Boundary points Subspace of a metric space. Cauchy sequences. Completeness. Cantor's intersection theroem. Contraction principle. Construction of a real numbers as the completion of the incomplete metric space of rationals. Real numbers as a complete ordered field. Dense subsets, baire category theorem. Separable, second countable and first countable spaces. Continuous functions. Extension theorem. Uniform continuity. Isometry and homeomorphism. Equivalent metries. Compactness. Sequential compatness. Totally bounded spaces. Finite intersection property. Continuous functions and compact sets. Connectedness components. Continuous functions and connected sets.

Note : The examiner is requested to set ten question in all, selecting questions section-wise as indicated in the syllabus. The candidate is required to attempt five questions, selecting at least one question from each section.

Books Recommended :

1. T.M. Apostol : Mathematical Analysis, Narosa Publishing House, New Delhi, 1985.
2. R. R. Goldberg, Real Analysis, Oxford & IBH Publishing Co., New Delhi, 1970.
3. S. Lang : Undergraduate Analysis, Springer-Verlag, New York, 1983.
4. D. Somasundaram and B. Choudhary : A First Course in Mathematical Analysis, Narosa Publishing House, New Delhi, 1997.
5. Shanti Narayan : A Course of Mathematical Analysis, S. Chand & Co., New Delhi.
6. R.V. Churchill & J. W. Brown : Complex variables and Applications, 8th Edition, McGraw-Hill, New York, 1990.
7. Shanti Narayan : Theory of Functions of a Complex Variable, S. Chand & Co., New Delhi.
8. E. T. Copson, Metric Spaces, Cambridge University Press, 1968.
9. G. F. Simmons : Introduction to topology and Modern Analysis, McGraw-Hill 1963.

Paper-II BM-302 : Abstract Algebra

Max. Marks : ~~30~~ 24+6
Time : 3 Hours

Section-I (3 Questions)

Group-Automorphisms, inner-automorphism. Automorphism groups and their compuations. Conjugacy relation Normaliser. Counting principle and the class equation of

a finite group. Center for Group Prime order. Abelianizing of a group and its universal property. Sylow's theorems. p-Sylow subgroup. Structure theorem for finite Abelian groups.

Section-II (2 Questions)

Ring theory. Ring homeomorphism. Ideals and Quotient Rings. Field of Quotients of an Integral Domain. Euclidean Rings. Polynomial Rings Polynomials over the Rational Field. The Eienstein Criterion. Polynomial Rings over Commulative Rings. Unique factorization domain R unique factorisation domain implies so is R $[X_1, X_2, \ldots\ldots\ldots\ldots X_n]$

Section-III (3 Questions)

Definition and examples of vector spaces. Subspaces. Sum and direct sum of subspaces. Linear span. Linear dependence, independence and their basic properties Basis. Finite dimensional vector spaces. Existence theorem for bases. Invariance of the number of elements of a basis set. Dimension. Existence of complementary Subspace of a subspace of a finite dimension. Existence of complementary Subspace of a subspace of a finite dimensional vector space. Dimensional of sums of subspaces. Quotient space and its dimension. Linear transformations and their representation as matrices. The Algebra of linear transformations. The rank nullity theorem. Change of basis. Dual space, Bidual space and natural isomorphism. Adjoint of a linear transformation. Eigenvalues and eigenvectors of a linear transformation. Diagonalisation. Annihilator or a Subspace Bilinear, Quadratic and Hermitian forms.

Section-IV (2 Questions)

Inner prodcut space-Cauchy-Schwarz inequality. Orthogonal vectors. Orthogonal Complements. Orthonormal sets and bases. Bessel's inequaliy for finite dimensional spaces. Gram-Schmidt Othogonalization process.

Modules, Submodules, quotient modules. Homeomorphism and Isomorphism theorems.

Note : The examiner is requested to set ten questions in all, selecting questions section-wise as indicated in the syllabus. The candidate is required to attempt five questions selecting at least one question from each section.

Books Recommended :

1. I. N. Hersteh : Topics in Algebra, Wiley Eastern Ltd., New Delhi, 1975.
2. N. Jacobsen : Basic Algebra, Vols. I & II, W.H. Freeman; 1980 (also published by Hindustan Publishing Company).
3. P. B. Bhattacharya., S. K. Jain and S. R. Nagpal : Basic Abstract Algebra (2nd edition).
4. K. Hoffiman and R. Kunze, Linear Algebra, 2nd edition.

6. S. K. Jain, A. gunawardena, & P.B. Bhattacharya : Basic Linear Algebra with MATLAB
7. Vivek Sahai and Vikas Bist : Algebra, Narosa Publishing House.
7. I. S. Luther and I. B. S. Passi : Algebra, Vol. i, Groups Vol. II Rings, Narosa Publishing House.

Paper-III : BM-303 : Programming in C and Numerical Analysis
(Theory & Practical)
(Non Programmable Scientific Calculator is allowed in this Paper)

Max. Marks : 30
Time : 3 Hours

Section-I (3 Questions)

Programmer's model of a computer. Alogorithms. Flow Charts. Data Types Anithmtic and Input/Output instructions. Decisions control structures. Decision statements Logical and conditional operators. Loop Case control structures. Functions Recursions Preprocessors. Arrays Puppeting of strings. Structures. Pointers. File formatting.

Section-II (2 Questions)

Solution of Equations : Bisection, Secant, Regular Falsi, Newton's Method. Roots of Polymonilas.

Interpolation : Language and Hermite Interpolation, Divided Differences. Difference Schemes, Interpolation Formulas using Differences.

Numerical Differentiation.

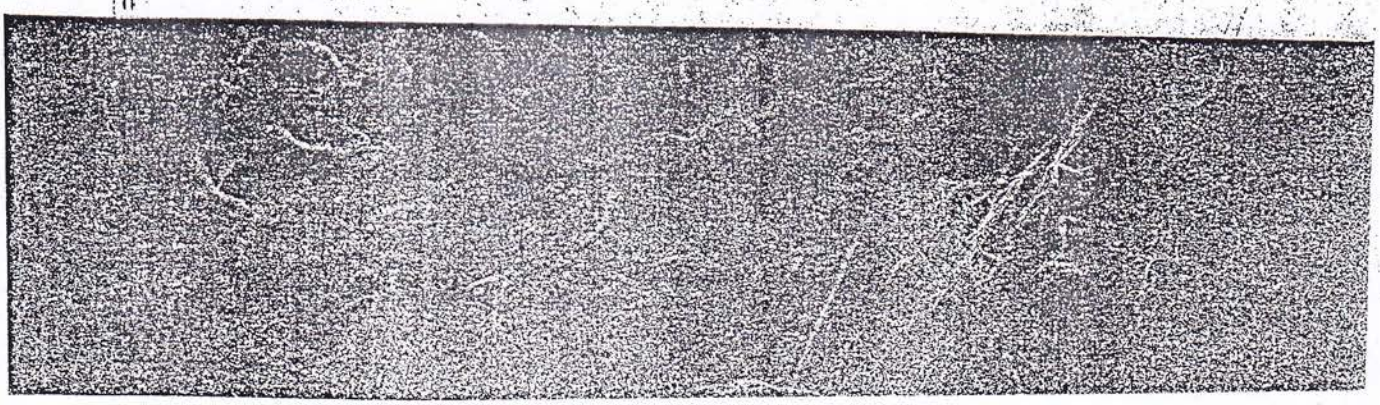
Numerical Quadrature : Newton-Cote's Formulas, Gauss Quadrature formulas, Chebychev's Formulas.

Linear Equations : Direct Methods for Solving Systems of Linear Equations Gauss Elimination, LU Decomposition, Cholesky Decomposition), iterative methods. Jacobi Guass-Seidel, Reizxation Methods).

Algebraic Eigenvalue problem : Jacobi's Method, Givens; method. Heuseholder's Method, Power Method, QR Method Lanczo's Method.

Section-III (2 Questions)

Ordinary Differential Equations : Euler Method, Single-step Methods, Runge-Kutta's Method, Multi-step Method, Milne-Simpson method, Methods based on Numerical



Integration, Methods based on Numerical Differentiation, Boundary value Problems, Eigenvalue problems.

Approximation : Different types of Approximation, Least Square Polynomial Approximations, Polynomial Approximation using Orthogonal Polynomials, Approximation with Trigonometric Functions, Exponential Functions, Chebychev polynomials, Rational Functions.

Section-IV (2 Questions)

Random number generation, congruential generators, statistical tests of pseudorandom numbers.

Random variate generation, inverse transform method, Composition method, acceptance-rejection method, generation of exponential, normal variates, binomial and poisson variates.

Monte Carlo integration, hit or miss Monte Carol intergraion, Monte Carlo integration for improper integrals, error analysis for Monte carlo integration.

Note : The examiner is requested to set ten questions in all, selecting questions section-wise as indicated in the syllabus. The candidate is required to attempt five questions selecting at least one question from each session.

Practicals

Practicals in C is based on Numerical Analysis as in Section-II and III above.

Books Recommended :

1. B. W. Kernighan and D. M. Rithcie, The C programming Languages, 2nd Edition.
2. V. Rajaraman, Programming in C, prentice Hall of India, 1994.
3. Byron S. Gottfried, Theory and problems of Programming with C, Tata McGraw-Hill Publishing Co. Ltd., 1998.
4. C. E. Froberg, Introduction to Numerical Analysis (2nd Edition).
5. Melvin J. Maron, Numerical Analysis : A Practical Approach, Macmillan Publishing Co, Inc, New York.
6. M. K. Jain, S.R.K. Iyengar, R. K. Jain, Numerical Methods-Problems and Solutions, New Age International (P) Ltd., 1996.
7. M. K. Jain, S.R.K. Iyengar, R. K. Jain, Numerical Mtehods for Scientific and Engineering Computation, New Age International (P) Ltd., 1999.
8. R. Y. Rubistein : Simulation and the Monte Carol Methods, John Wiley, 1981.

MEDIA WRITING

(BAM) GENERAL THIRD YEAR

MEDIA WRITING

Max. Marks: 80

Pass Marks: 28
Time: 3 hours

Reporting and Editing for Newspaper, Creative Writing,

News Writing, Definition, Types of News, Inverted Pyramid, Feature writing, definitions and Type of Features, article writing, Editorial writing, Writing for Radio and T.V., Radio News ,Script Writing, Radio Jingles, TV News Writing, TV announcements.

Writing for advertisements, Slogan Writing, Definition of News,

Principals of Reporting, Backgrounder follow up, deadline, dateline, Voice over Peace to Camera, Principals of Editing, Caption Writing, DTP,

Editorial, Headlines and types of headlines, Need and Impact of Headlines

Free lancing, Review writing, News Analysis, Syndicate Journalism.

Suggested Readings :

1. Introduction to Mass Communication – Keval J. Kumar
2. संचार के सात सौपान – अनिल अंकित
3. Narula Uma Development Communication- Theory and Practice, Har Anand
4. Gupta V.S. Communication and Development Concept, New Delhi.
5. Tewari, I P Communication Technology and Development, Publication Division, Govt. of India
6. Handbook of New Media, Live Row.

BA IIIrd Year

10. POLITICAL SCIENCE

Paper Opt. (I) : Comparative Government and Politics

(Government and Politics of U.K, U.S.A, China, Switzerland)

Max. Marks : 80
Internal Assessment : 20
Time : 3 Hours

Note : Total 10 questions will be set : four each from Part A and B and two from Part C. Candidates will have to attempt five questions in all, selecting at least one question from each Part.

Part-A

Approaches to the Study of Comparative Politics

Constitutions and Constitutionalism

Historical Legacy and Political Traditions

Institutional Structure : Executive, Legislature and Judiciary Political Culture.

Part-B

Political Parties and Party Systems

Interest Groups and pressure Groups

State and Local Governments

Socio-economic bases of the Constitution

Women and the Political Process

Part-C

Short answer questions, at least four, spread over the entire syllabus. Objective Type (multiple choice) questions spread over the whole syllabus.

Rajkumar

Readings

1. G Almond et al , Comparative Politics Today : A World View, 7th ed, NewYork, London Harper/Collins, 2000.
2. W. Bagehot, The English Constitution, London, Fontana, 1963.
3. A H Birch, British System of Government, 4th ed, London, George Allen and Unwin, 1980.
4. J. Blondel, An Introduction to Comparative Government, London, Weidenfeld and Nicolson, 1969.
5. J. Blondel, Comparative Legislatures, Englewood Cliffs, NJ, prentice Hall, 1973.
6. J. Bryce, Modern Democracies, Vol. 2, New York, Macmillan, 1921.
7. I. Derbyshire, Politics in China, London, Chambers, 1991.
8. H. Finer, Theory and Practice of Modern Government, London, Methuen, 1969.
9. S.E. Finer, Comparative Government, Harmondsworth, Penguin, 1974.
10. J. Gittings, China Changes Face : The Road from Revolution 1949-89 London, Oxford University Press, 1989.
11. E.S. Griffith, The American System of Government, 6th ed, London, Methuen, 1983.
12. H. Harding, China's Second Rvolution : Reform after Mao, Washington DC, Brookings Institution, 1987.
13. Inter-Parliamentary Union, Women in National Parliaments, 2000.
14. D. Kavangh, British Politics : Continuity and Change, oxford, Oxford University Press 1985.
15. H J. Laski, American Democracy : A Commentary and an Interpretation, London, Unwin, 1948.

16. A. Lijphart. Electroal Systems and party System. New haven CT, Yale University Press, 1994.

17. A. Lijphart, (ed.), Parliamentary versus Presidential government, Oxford and New York. Oxford University Press, 1992.

18. A. Lijphart. Democracies : Patterns of Majoritarian and Consensual Government in Twenty-one Countries, New Haven CT, and London, Yale University Press, 1992.

19. KC. Macridis and R.E. Ward. Modern Political Systems . Europe, and Asia, 2nd ed. Englwood Cliffs, NJ, Prentice Hall, 1968.

20. P. Maddex, Constitutions of the World, 2nd edn., Washington DC and London, CQ Press, 2000.

21. P. Mair, The West European Party System, Oxford, Oxford University Press, 1990.

22. T. Munro, The Governments of Europe, New York, Macmillan, 1963.

23. B. Nelson and N. Chowdhary (ed.), Women and Politics Worldwide, Delhi, Oxford University Press, 1997.

24. D. Olson, Legislative Institutions : A Comparative View, Armonk NY, M.E.Sharpe, 1994

25. V. Randall, Women and Politics : An International Perspective, 2nd ed, Chicago, University of Chicago Press, 1987.

26. M. Rhodes, P. Heywood and V. Wright, Development in West European Politics. Basingstoke, Macmillan, 1997.

27. KC. Wheare, Federal Government, 4th ed, Oxford and New York, Oxford University Press. 1963.

28. J Wilson, American Government, 4th ed, Boston Massachusetts, Houghton Miffin. 1987.

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B.A III-rd - History

Option - (ii) Modern World

Max. Marks : 80
Internal Assessment : 20
Time : 3 Hours

Note :

1. The question paper will consist of nine questions. The candidate shall attempt five questions in all. The Question No. I will be compulsory. The Candidate shall attempt four more questions selecting at least one from each Unit. Each question will carry 16 marks.

2. The Question No. 1 will be short answer type containing four questions of equal marks (i.e., 4 marks each) spread over the whole syllabus.

3. The Map Question will be carrying 16 marks. (10 for map work and 6 for explanatory note) For visually handicapped candidates, the part relating to the explanatory note will carry full marks.

Unit - I

Transition from Feudalism to Capitalism in Europe

Renaissance: Origins, Emergence and Impact

Reformation: Origins, Emergence and impact

Age of Enlightenment

Economic Development during 16th Century: Shift of Economic Balance from the Mediterranean to Atlantic Region.

Old Colonial System: Motives and Consequences of Colonization in Americas

Recommended subject to approval of the Ven BOS.

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Unit - II

Mercantile Revolution: Origins, Progress and Impact

Scientific Revolutions: Agricultural Revolution and Industrial Revolution

Glorious Revolution: Nature and Impact

American Revolution: Nature and Impact

French Revolution: Nature and Impact

Unit - III

Rise of Imperialism: Causes and Consequences

World War - I : Causes and Consequences

Paris Peace Settlement: Important Treaties - Provisions and Consequences

Rise of Socialism and Bolshevik Revolution in Russia

Rise of Dictatorship: Nazism and Fascism

World War - II: Causes and Consequences

Unit - IV

Maps (Europe/World):

Important Centers of Renaissance in Europe

Important Centers of Reformation in Europe

Major Places Connected with Industrial Revolution in World

Polarization of Countries before World War-I

Polarization of Countries before World War-II

Suggested Reading :

Barrachough, G.	An Introduction to Contemporary History (Pengu in, 1968)
Bronowski, J., and Bruce Mazlish	The Western Intellectual Tradition (Ayer Co., 1960)
Carr, E.H.	The Bolshevik Revolution, 1917-23, 3 Vols. (Macmillan, 1950, 1951 and 1953)
Chauhan, D. S.	Europe Ka Itihas (Hindi)
Chauhan, D. S.	Samkalin Europe (Hindi)
Cipolla, Carlo M.	Forntana Economic History ofEurope, Vols II and III.
Coleman, D. C. (ed.)	Revisions in Mercantilism
Davis, H. A. (ed.).	Outline History ofthe World
Davis, Ralph	The Rise ofthe Atlantic Economics
Dobb, Maurice	Studies in the Developments ofCapitalism
Fisher, H.A.L.	A History ofEurope
Gupta, Parthasarthi (ed.)	Adhunik Paschim Ka Uday (Hindi)
Gupta, Parthasarthi (ed.)	Europe Ka Itihas (Hindi)
Hall, J.R.	From Galileo to Newton
Henderson, O. P.	The Industrial Revolution on the Continent
Hill. Christopher	F rom Reformation to Industrial Revolution (Penguin, 1970)
Hill, Christopher	Lenin and the Russian Revolution, (Penguin, 1978)
Hilton, Rodney	Transition From Feudalism to Cap italism

Hobsbawm, EJ.	The Age ofRevolution
Joll, James	Europe Since 1870: An International History (Harper Row, 1973)
Joll, James	1870 Se Europe (Hindi)
Langer, W.L.,	Diplomacy ofImper ialism
Lefebvre, Georges	Coming ofthe French Revolution (Princeton, 1989)
Morgan, 'K.O.	Oxford Illus trated Hist01Y ofBritain 1789-1983
Palmer, R.A. and Cotton Joel	A HistOJY ofModern World (McGraw, 1982)
Parker, G.	Europe in Crisis 1598~1648
Parks, H.B.	The United States ofAmerica
Parry, J.P.	The Age ofRenaissance
Porter, Andrew	European Imperialism, 1860-1914
Roberts, J.M.	Europe 1880-1945
Rude, George	Revolutionary Europe (1984)
Saboul, A.	The French Revolution
Stavrianes, L.S .	The World Since 1500 (1928)
Stephen, 1. Lee	Aspects ofEuropean History 1494-1789
Taylor AJ.P.	The Struggle for Mastery in Europe (OUP,1954)
Taylor, AJ.P.	The Origins ofthe Second World War
Thompson, David	Europe Since Napoleon (penguin, 1966)
WuuJ, Anthony	History ofEurope 1915-1960

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B.A Part-III
ਬੀ. ਏ. ਭਾਗ ਤੀਸਰਾ

ਵਿਸ਼ਾ : ਪੰਜਾਬੀ (ਇਲੈਕਟਿਵ)

ਕੁਲ ਨੰਬਰ :100
(ਪੇਪਰ : 80 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 20)
ਸਮਾਂ: 3ਘੰਟੇ

ਸਲੇਬਸ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਗ੍ਰਹਿ	15 ਨੰਬਰ
2. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਗੱਦ ਸੰਗ੍ਰਹਿ	15 ਨੰਬਰ
3. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (ਆਰੰਭ ਤੋਂ 1700 ਤੱਕ)	10 ਨੰਬਰ
4. ਕਾਵਿ ਰੂਪ (ਕਿੱਸਾ, ਵਾਰ, ਜੰਗਨਗਮਾ, ਕਾਫੀ, ਬਾਰਾ ਮਾਹ, ਮਹਾ ਕਾਵਿ, ਰੁਬਾਈ ਅਤੇ ਗ਼ਜ਼ਲ) ਅਤੇ ਵਾਰਤਕ ਰੂਪ (ਨਾਵਲ, ਨਿੱਕੀ ਕਹਾਣੀ, ਨਾਟਕ, ਇਕਾਂਗੀ, ਰੇਖਾ-ਚਿੱਤਰ, ਸਫ਼ਰਨਾਮਾ, ਨਿਬੰਧ, ਜੀਵਨੀ ਅਤੇ ਸਵੈ-ਜੀਵਨੀ)	20 ਨੰਬਰ
5. ਅਨੁਵਾਦ (ਹਿੰਦੀ ਤੋਂ ਪੰਜਾਬੀ ਅਤੇ ਪੰਜਾਬੀ ਤੋਂ ਹਿੰਦੀ)	20 ਨੰਬਰ

ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ

1.ਕਾਵਿ ਜੋਤਾਂ, ਅਮਰਜੀਤ ਸਿੰਘ ਉਬਰਾਇ ਅਤੇ ਗੁਰਦਿਆਲ ਸਿੰਘ (ਸੰਪਾ.), ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ, ਕੁਰੂਕਸ਼ੇਤਰ।

(ਕੇਵਲ ਇਹ ਕਵੀ ਹੀ ਪੜ੍ਹੇ ਜਾਣਗੇ : ਗੁਰੂ ਨਾਨਕ ਦੇਵ, ਗੁਰੂ ਅੰਗਦ ਦੇਵ, ਗੁਰੂ ਤੇਗ ਬਹਾਦੁਰ, ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ, ਭਾਈ ਗੁਰਦਾਸ, ਬਾਬਾ ਫ਼ਰੀਦ, ਦਮੋਦਰ, ਸ਼ਾਹ ਹੁਸੈਨ ਅਤੇ ਪੀਲੂ)

2.ਗੱਦ ਦਰਪਣ, ਦਰਸ਼ਨ ਸਿੰਘ ਅਤੇ ਲਲਿਤ ਕੁਮਾਰ ਜੈਨ (ਸੰਪਾ.),ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ, ਕੁਰੂਕਸ਼ੇਤਰ ।

3.ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ, ਡਾ. ਪਰਮਿੰਦਰ ਸਿੰਘ (ਸੰਪਾ.), ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. ਕਾਵਿ ਜੋਤਾਂ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਪਹਿਲਾ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਕਵੀਆਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਕਵਿਤਾ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਨਾਲ ਸਬੰਧਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਵੇ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਮੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 250-300 ਵਿਚ ਸ਼ਬਦਾਂ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ 5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਦਾ ਹੋਵੇਗਾ। ਚਾਰ ਪੈਰ੍ਹੇ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਲਈ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਦੋ ਕਰਨੇ ਹੋਣਗੇ। ਇਹ ਸਵਾਲ 10 (5+5) ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

2. ਗੱਦ ਰਚਨਾ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀ ਗੱਦ ਰਚਨਾ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਗੱਦ ਪਰੰਪਰਾ ਵਿਚ ਥਣਦੇ ਸਥਾਨ ਨਾਲ ਸਬੰਧਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਵੇ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਸੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 250-300 ਵਿਚ ਸਬਦਾਂ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ 5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਗੱਦ ਰਚਨਾ ਵਿਸ਼ੇ- ਦਾਰੂ, ਸਾਚ, ਸਾਹਿਤਕ ਮੁੱਲਾਂਕਣ ਜਾਂ ਅਜਿਹਾ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾ ਸਕਦਾ ਹੈ ਜੋ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀ ਗੱਦ ਰਚਨਾ ਦੇ ਮੁੱਲ ਨੂੰ ਪ੍ਰਗਟ ਕਰਦਾ ਹੋਵੇ। ਅੰਦਰੂਨੀ ਛੂਟ ਨਾਲ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

3. 1700 ਈ. ਤੱਕ ਦੇ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਵਿਚੋਂ ਕੋਈ ਦੋ ਨਿਬੰਧਾਮੂਲਕ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਕੋਈ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਹੋਵੇਗਾ। ਪ੍ਰਸ਼ਨ ਸਾਹਿਤਕ ਧਾਰਾਵਾਂ ਨਾਲ ਸਬੰਧਤ ਹੋਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ 10 ਅੰਕ ਦਾ ਜੋਵੇਗਾ।

4. ਸਲੇਬਸ ਵਿਚ ਨਿਰਧਾਰਿਤ ਕਾਵਿ ਰੂਪਾਂ ਵਿਚੋਂ ਕਿਸੇ ਦੋ ਕਾਵਿ ਰੂਪਾਂ ਬਾਰੇ ਪੁੱਛਿਆ ਜਾਵੇਗਾ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੂੰ ਇਨ੍ਹਾਂ ਪੁੱਛੇ ਗਏ ਦੋ ਕਾਵਿ ਰੂਪਾਂ ਵਿਚੋਂ ਕੋਈ ਇਕ ਕਾਵਿ ਰੂਪ ਕਰਨਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸਨ 10 ਅੰਕ ਦਾ ਹੋਵੇਗਾ ਅਤੇ ਏਸੇ ਤਰ੍ਹਾਂ ਸਿਲੇਬਸ ਵਿਚ ਨਿਰਧਾਰਿਤ ਸਾਹਿਤ ਰੂਪਾਂ(ਵਾਰਤਕ) ਬਾਰੇ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਦੋ ਸਾਹਿਤ ਰੂਪ ਦਿੱਤੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਾਹਿਤ ਦੇ ਕਿਸੇ ਇਕ ਰੂਪ ਬਾਰੇ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ 10 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਇਨ੍ਹਾਂ ਦੋਹਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਕੁਲ 20 ਨੰਬਰ ਹੋਣਗੇ।

5. ਇਕ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਚ ਪੈਰ੍ਹਾ ਦਿੱਤਾ ਜਾਵੇਗਾ ਜਿਸਨੂੰ ਵਿਦਿਆਰਥੀ ਨੇ ਹਿੰਦੀ ਭਾਸ਼ਾ ਵਿਚ ਅਨੁਵਾਦ ਕਰਨਾ ਹੋਵੇਗਾ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ 10 ਨੰਬਰ ਹੋਣਗੇ ਅਤੇ ਇਕ ਪੈਰ੍ਹਾ ਹਿੰਦੀ ਭਾਸ਼ਾ ਵਿਚ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਇਸਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਚ ਅਨੁਵਾਦ ਕਰਨਾ ਹੋਵੇਗਾ। ਇਸ ਪ੍ਰਸ਼ਨ ਦੇ ਵੀ 10 ਨੰਬਰ ਹੋਣਗੇ। ਇਨ੍ਹਾਂ ਦੋਨਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਕੁਲ 20 ਨੰਬਰ ਹੋਣਗੇ।

B.A 3-4 Year

7. संस्कृतम्

(ऐच्छिकम्)

पूर्णांक: 80
आन्तरिक मूल्यांकन : 20
समय : 3 घण्टे

एकक-1 **संस्कृत-वाग्व्यवहार :**

'संस्कृत-व्यवहार-साहस्त्री' (प्रकाशन-संस्कृतभारती, माता मन्दिर गली, झण्डेवालान, नई दिल्ली) पुस्तक से 17 से 26 विषयों तक संस्कृत प्रश्नोत्तररूप में लिखित परीक्षा (17. समय : 18. दूरभाषा, 19. वाणिज्यम्, 20. वातावरणम्, 21. गृहसम्भाषणम्, 22. पितर:पुत्रा: च, 23. मातापतिरौ, 24. पुत्रा:, 25.अतिथि:, 26. संकीर्णवाक्यानि)

7 अंक

एकक-2 **संस्कृत-ग्रन्थानुशीलनम्**

21 अंक

अभिज्ञानशाकुन्तलम्

(श्लोकों व सूक्तियां की व्याख्या/आलोचनात्मक प्रश्न व सार आदि)

एकक-3 **संस्कृत-साहित्येतिहास:**

(क) संहिता, ब्राह्मण, आरण्यक, उपनिषद् व वेदांग-साहित्य 8 अंक

(ख) रामायण, महाभारत, अश्वघोष, भास, कालिदास, बाणभट्ट, सुबन्धु, दण्डी, भवभूति, भारवि, श्रीहर्ष, माघ, अम्बिका दत्त व्यास ।

(लेखकों व कृतियों का सामान्य परिचय) 9 अंक

एकक-4 **लघुसिद्धान्तकौमुदी**

(क) कारक प्रकरणम्

10 अंक

A 3rd year

(ख) शब्दविज्ञेय प्रकरणम् 9 अंक

(शब्दार्थ ज्ञापन, वाक्य रचना व सूत्रों की व्याख्या)

एकक-5 अलंकार : निबन्धश्च

(क) अलंकार

अनुप्रास, श्लेष, यमक, उपमा, उत्प्रेक्षा, रूपक, अतिशयोक्ति, विभावना, विशेषोक्ति, अर्थान्तरन्यास 8 अंक

(ख) सरल विषयों पर सरल संस्कृत में निबन्ध 8 अंक

सहायक पाठ्य-ग्रंथ :

1. संस्कृत साहित्य की रूपरेखा : पाण्डेय एवं व्यास
2. लघुसिद्धान्तकौमुदी : वरदराजाचार्य
3. काव्यप्रकाशः मम्मटाचार्य
4. संस्कृत निबन्ध शतकम् : डॉ. कपिलदेव द्विवेदी
5. वैदिकवाङ्मय का आलोचनात्मक इतिहास : पण्डित भगवत दत्त
6. अभिज्ञानशाकुन्तलम् : महाकवि कालिदास

B.A.-III

Population and Society

(Optional-III)

Maximum Marks – 100

Theory – 80

Internal Assessment – 20

Time – 3 hours

Note: - The Paper setter shall set 8 questions from all four units with internal choice. However, one compulsory question of short answer type would be set from the entire syllabus comprising four sub-questions of four marks each under 5th Unit. Such way, the examinees are required to attempt five questions in all, of 16 marks each.

UNIT – I

Population Studies: Meaning, Scope and Significance; Fertility, Mortality and their Determinants; Migration- Types and factors.

UNIT – II

Theoretical Issues: Biological, Malthusian and Neo-Malthusian Theory; Demographic Transition; Optimum Population.

UNIT – III

Composition of Population in India: Age and Sex Structure, Problem of Sex-Ratio Decline; Religious Composition, Rural and Urban Dimension, Occupational Structure; Literacy-illiteracy.

UNIT – IV

Population Planning and Control: Family Planning Programme, Population Policy of India, National Rural Health Mission, Menace of Female Foeticide; Female centered welfare measures in India and Haryana.

Readings:

Agarwal, S.N. (1989): **Population Studies with Special Reference to India,** New Delhi:
Lok Surjeet Publication.

Bose, Ashish (1991): **Demographic Diversity in India,** Delhi: B.R.Publishing Corporation.

Banarjee, D. (1985): **Health and Family Planning Services in India,** New Delhi: Lok Parkshan.

Chandrasekhar, S. (ed.) (1974): **Infant Mortality, Population Growth and Family Planning in India,** London: George Alen and Unwin Ltd.

Dubey, Surendra Nath (2001): **Population of India,** Delhi: Authors Press.

Kohli, S.(1977): **Family Planning in India,** New Delhi.

Malthus, T.R. (1986): **An Essay on the Principle of Population,** London: William Pickering.

Premi, M.K.(2004): **Social Demography,** Delhi: Jawahar Publishers and Distributiors.

Sharma, Rajendra(1997): **Demography and Population Problems,** New Delhi:Atlantic Publishers.

Srivastava, O.S.(1998): **Demography and Population Studies,** New Delhi: Vikas Publishing House.

National Rural Health Mission (2006), Govt. of India, New Delhi

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Course Structure Scheme

For

Under Graduate,
3 Year(s) Bachelor Degree Program in

Faculty of Commerce and Management

Bachelor of Commerce(B.Com.)
(UC-2018-19-Regular)
Course Code: -

Publisher's Note

This Chaudhary Devi Lal University has great Pleasure in publishing this course structure for Under Graduate course for 3 Year(s) Bachelor Degree Program as "Bachelor of Commerce" (UC-2018-19 - Regular) under the Faculty of "Faculty of Commerce and Management".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

Date: 1/31/2020 11:29:06 AM
Chaudhary Devi Lal University,Sirsa, Haryana, Pin-125055, (India)

Registrar

Course Objective(s)

The Bachelor of Commerce Consists of following 0 course part(s):

Sr.No.	Course Part Name	Course Part Abbrevation	Examination Pattern

The Bachelor of Commerce is available in following medium of instruction/s:

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Paper Assessment Scheme

For

Under Graduate Course,
For 3 Year(s) Bachelor Degree Program in

Faculty of Commerce and Management

Bachelor of Commerce(B.Com.)
(80-20 Pattern-Regular)
General
Course Code: -

Papers

Teaching And Assessment Scheme

Abbreviations : TLM - Teaching Learning Method, AM - Assessment Method, AT - Assessment Type, EA - External Assessment, IA - Internal Assessment, Hrs - Contact Hours per Week, MS - Marks System, GS - Grade System, Min - Minimum Marks, Max - Maximum Marks, DG - Direct Grading, IG - Indirect Grading

Course Part: F.Y.B.Com. Separate Passing Head: No, Min: 0, Max: 1200

Term: Sem-I Separate Passing Head: No, Min Papers: 5, Max Papers: 7, Min: 0, Max: 500

The papers under Sem-I are as follows:

Paper Name: English
Paper Code: BC-1.1 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Financial Accounting
Paper Code: BC-1.2 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Business Laws
Paper Code: BC-1.3 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Micro Economics
Paper Code: BC-1.4 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Business Mathematics
Paper Code: BC-1.5 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ2 Min: 0 Max: 200

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Fundamentals of Environmental Studies
Paper Code: EVS Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Term: Sem-II Separate Passing Head: No, Min Papers: 5, Max Papers: 9, Min: 0, Max: 650

The papers under Sem-II are as follows:

Paper Name: Proficiency in English
Paper Code: BC-2.1 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Corporate Accounting
Paper Code: BC-2.2 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Corporate Laws
Paper Code: BC-2.3 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Macro Economics
Paper Code: BC-2.4 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Introduction to Computer Application
Paper Code: BC-2.5 Min: 35 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	80	EA	28	80	Marks System
Practical	2	0.00/0	Practical	-	20	IA	-	20	Marks System

Paper Name: Commerce Practical & Viva- Voce
Paper Code: BC-2.6 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	6	0.00/0	Practical	-	50	EA	18	50	Marks System

Paper Name: Environmental Studies
Paper Code: BC-2.7 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ2 Min: 0 Max: 200

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Fundamentals of Environmental Studies
Paper Code: EVS Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Course Part: S.Y.B.Com. Separate Passing Head: No, Min: 0, Max: 1100

Term: Sem-III Separate Passing Head: No, Min Papers: 6, Max Papers: 8, Min: 0, Max: 650

The papers under Sem-III are as follows:

Paper Name: Hindi
Paper Code: BC-3.1 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Business Statistics
Paper Code: BC-3.2 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Income Tax Law and Practice-I
Paper Code: BC-3.3 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Management Principles & Applications
Paper Code: BC-3.4 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Indian Economy
Paper Code: BC-3.5-i Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Industrial Economics
Paper Code: BC-3.5-ii Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Computer Application in Business
Paper Code: BC-3.6-i Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	6	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Information Technology in Business
Paper Code: BC-3.6-ii Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ4 Min: 0 Max: 200

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Environmental Pollution
Paper Code: EVS03 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	40	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fundamentals of Environmental Studies (Qualifying) Paper Code: EVS2 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Term: Sem IV Separate Passing Head: No, Min Papers: 6, Max Papers: 10, Min: 0, Max: 0

The papers under Sem IV are as follows:

Paper Name: Hindi Paper Code: BC-4.1 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System
Paper Name: Environmental Studies Paper Code: BC-4.11 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Advanced Corporate Accounting Paper Code: BC-4.2 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Income-Tax Law and Practice-II Paper Code: BC-4.3 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	80	EA	28	80	Marks System
Practical	2	0.00/0	Practical	-	20	IA	-	20	Marks System
Paper Name: Organisational Behaviour Paper Code: BC-4.4 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Banking Operations Paper Code: BC-4.5(i) Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Rural Banking and Financial Inclusion Paper Code: BC-4.5(ii) Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: E-Commerce Paper Code: BC-4.6(i) Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: E-Business and Accounting
Paper Code: BC-4.6(ii) Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	18	50	Marks System
Practical	3	0.00/0	Practical	18	50	EA	18	50	Marks System

Paper Name: Commerce Practical & Viva-Voce
Paper Code: BC-4.7 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	3	0.00/0	Practical	18	50	EA	18	50	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ4 Min: 0 Max: 200

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Environmental Pollution
Paper Code: EVS04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Course Part: T.Y.B.Com. Separate Passing Head: No, Min: 0, Max: 1200

Term: Sem-V Separate Passing Head: No, Min Papers: 6, Max Papers: 8, Min: 0, Max: 500

The papers under Sem-V are as follows:

Paper Name: Financial Management
Paper Code: BC-5.1 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Principles of Marketing
Paper Code: BC-5.2 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Cost Accounting
Paper Code: BC-5.3 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: International Business
Paper Code: BC-5.4(i) Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Public Finance
Paper Code: Bc-5.4(ii) Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Financial Markets and Services Paper Code: BC-5.5 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Advertising Paper Code: BC-5.6 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Fundamentals of Investment Paper Code: BC-5.7 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Seminar Paper Code: BC-5.8 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Seminar	3	0.00/0	Present ation	-	50	EA	18	50	Marks System
Paper Name: Environmental Conservation and Society Paper Code: EVS05 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Term: Sem-VI Separate Passing Head: No, Min Papers: 7, Max Papers: 7, Min: 0, Max: 650

The papers under Sem-VI are as follows:

Paper Name: Management Accounting Paper Code: BC-6.1 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Auditing and Assurance Paper Code: BC-6.2 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Entrepreneurship Development Paper Code: BC-6.3 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Financial Economics Paper Code: BC-6.4(i) Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: International Banking & Forex Management
Paper Code: BC-6.4(ii) Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Allied Business Laws
Paper Code: BC-6.5 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Business Research Methods
Paper Code: BC-6.6 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Logistics and Supply Chain Management
Paper Code: BC-6.7 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Commerce Practical & Viva-Voce
Paper Code: BC-6.8 Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	3	0.00/0	Practical	-	50	EA	18	50	Marks System

Paper Name: Environmental Conservation and Society
Paper Code: EVS06 Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Course Structure Scheme

For

Under Graduate,
3 Year(s) Bachelor Degree Program in

Faculty of Commerce and Management

Bachelor of Commerce(B.Com.)
(Credits System)

(UC-2018-19-Regular)
Course Code: -

Publisher's Note

This Chaudhary Devi Lal University has great Pleasure in publishing this course structure for Under Graduate course for 3 Year(s) Bachelor Degree Program as "Bachelor of Commerce" (UC-2018-19 - Regular) under the Faculty of "Faculty of Commerce and Management".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

Date: 4/21/2021 1:58:22 PM
Chaudhary Devi Lal University,Sirsa, Haryana, Pin-125055, (India)

Registrar

Course Objective(s)

The Bachelor of Commerce Consists of following 0 course part(s):

Sr.No.	Course Part Name	Course Part Abbrevation	Examination Pattern

The Bachelor of Commerce is available in following medium of instruction/s:

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Course Structure Scheme

For

Under Graduate,
3 Year(s) Bachelor Degree Program in

Faculty of Life Science

Bachelor of Science(B.Sc.)
(w.e.f. 2017-18-Regular)
Computer Science
Course Code: -
For Academic Year 2018-2019

Publisher's Note

This Chaudhary Devi Lal University has great Pleasure in publishing this course structure for Under Graduate course for 3 Year(s) Bachelor Degree Program as "Bachelor of Science" (w.e.f. 2017-18 - Regular) (Computer Science) under the Faculty of "Faculty of Life Science".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

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Chaudhary Devi Lal University,Sirsa, Haryana, Pin-125055, (India)

Registrar

Course Objective(s)

The Bachelor of Science Consists of following 3 course part(s):

Sr.No.	Course Part Name	Course Part Abbrevation	Examination Pattern
1	First Year Bachelor of Science	F.Y.B.Sc.	Semester
2	Second Year Bachelor of Science	S.Y.B.Sc.	Semester
3	Third Year Bachelor of Science	T.Y.B.Sc.	Semester

The Bachelor of Science is available in following medium of instruction/s:

1. Hindi/English

Course Part: F.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-I Separate Passing Head: No, Min Courses: 9, Max Courses: 11, Min:0,Max:450

The papers for F.Y.B.Sc. - Sem-I are classified into following groups:

1.Course Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Elective Group-I (Min Papers: 9, Max Papers: 9,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 9 paper(s)
Select maximum 9 paper(s)

Papers:

EN01	English
MA01 A	Mathematics: Algebra
MA01 B	Mathematics: Calculus
MA01 C	Mathematics: Solid Geometry
PH01 A	Physics: Classical Mechanics & Theory of Relativity
PH01 B	Physics: Electricity, Magnetism & Electro Magnetic Theory
CS01 A	Computer Fundamental and Programming in C
CS01 B	Logical Organization of Computer-I
CSP01	Practical

2.Elective Group-II (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

EVS	Fundamentals of Environmental Studies
CAQ2	Computer Awareness (Qualifying)

Term: Sem-II Separate Passing Head: No, Min Courses: 9, Max Courses: 12, Min:0,Max:650

The papers for F.Y.B.Sc. - Sem-II are classified into following groups:

1.Course Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Core Group (Min Papers: 9, Max Papers: 10,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 9 paper(s)
Select maximum 10 paper(s)

Papers:

EN02	English
MA02 A	Mathematics: Number Theory and Trigonometry
MA02 B	Mathematics: Ordinary Differential Equations
MA02 C	Mathematics: Vector Calculus
PH02 A	Physics: Properties of Matter & Kinetic Theory of Gases
PH02 B	Physics: Semiconductor Devices
CS02 A	PC-Software
CS02 B	Logical Organization of Computer-II
CSP02	Computer Science Practical
PH02 C	Physics Practical

2.Elective Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

EVS	Fundamentals of Environmental Studies
CCEL-1	Basic Computer Course

Course Part: S.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-III Separate Passing Head: No, Min Courses: 9, Max Courses: 11, Min:0,Max:450

The papers for S.Y.B.Sc. - Sem-III are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 3 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

HI03	Hindi
PU03	Punjabi
SA03	Sanskrit

2.Core Group II (Min Papers: 8, Max Papers: 8,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 8 paper(s)
Select maximum 8 paper(s)

Papers:

CS03 A	Data Structure using 'C'
CS03 B	Structured System Analysis & Design
CSP 03	Computer Practical
MA03 A	Mathematics: Advanced Calculus
MA03 B	Mathematics: Partial Differential Equations
MA03 C	Mathematics: Statics
PH03 A	Physics: Wave and Optics-I
PH03 B	Physics: Computer Programming and Thermodynamics

3.Elective Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS2	Fundamentals of Environmental Studies (Qualifying)

Term: Sem-IV Separate Passing Head: No, Min Courses: 11, Max Courses: 13, Min:0,Max:550

The papers for S.Y.B.Sc. - Sem-IV are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 3 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

HI04	Hindi
PU04	Punjabi
SA04	Sanskrit

2.Core Group II (Min Papers: 10, Max Papers: 10,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 10 paper(s)
Select maximum 10 paper(s)

Papers:

MA04 A	Mathematics: Sequence and Series
MA04 B	Mathematics: Special Functions & Integral Transforms
MA04 C	Mathematics: Programming in C and Numerical Methods
MA04-P	Math Practical
PH04 A	Physics: Statistical Physics
PH04 B	Physics: Wave and Optics-II
PH04 P	Physics Practical
CS04 A	Operating Systems
CS04 B	Programming in Visual Basic
CS04 P	Computer Science Practical

3.Elective Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS04	Environmental Pollution

Course Part: T.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1500

Term: Sem-V Separate Passing Head: No, Min Courses: 9, Max Courses: 11, Min:0,Max:750

The papers for T.Y.B.Sc. - Sem-V are classified into following groups:

1.Course Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 9, Max Papers: 9,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 9 paper(s)
Select maximum 9 paper(s)

Papers:

PH05 A	Physics: Quantum Mechanics And Laser Physics
PH05 B	Physics: Nuclear Physics
MA05 A	Mathematics: Real Analysis
MA05 B	Mathematics: Group & Rings
MA05 C	Mathematics: Numerical Analysis
MA05 P	Math Practical
CS05 A	Programming in C++
CS05 B	Introduction to Data Base Systems
CS05 P	Computer Science Practical

2.Elective Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS05	Environmental Conservation and Society

Term: Sem-VI Separate Passing Head: No, Min Courses: 9, Max Courses: 10, Min:0,Max:700

The papers for T.Y.B.Sc. - Sem-VI are classified into following groups:

1.Main Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Core Group (Min Papers: 9, Max Papers: 9,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 9 paper(s)
Select maximum 9 paper(s)

Papers:

MA06 A	Mathematics: Real and Complex Analysis
MA06 B	Mathematics: Linear Algebra
MA06 C	Mathematics: Dynamics
PH06 A	Physics: Solid State & Nano Physics
PH06 B	Physics: Atomic & Molecular Spectroscopy
CS06 A	Computer Networks
CS06 B	Relational Database Management System
CS06 P	Computer Science Practical
PH06 P	Physics Practical

2.Elective (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)

EVS06	Environmental Conservation and Society

Chaudhary Devi Lal University
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Paper Assessment Scheme

For

Under Graduate Course,
For 3 Year(s) Bachelor Degree Program in

Faculty of Life Science

Bachelor of Science(B.Sc.)
(w.e.f. 2017-18-Regular)
Computer Science
Course Code: -

Papers

Teaching And Assessment Scheme

Abbreviations : TLM - Teaching Learning Method, AM - Assessment Method, AT - Assessment Type, EA - External Assessment, IA - Internal Assessment, Hrs - Contact Hours per Week, MS - Marks System, GS - Grade System, Min - Minimum Marks, Max - Maximum Marks, DG - Direct Grading, IG - Indirect Grading

Course Part: F.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-I Separate Passing Head: No, Min Papers: 9, Max Papers: 11, Min: 0, Max: 450

The papers under Sem-I are as follows:

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ2 Min: 0 Max: 200

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Computer Fundamental and Programming in C
Paper Code: CS01 A Min: 0 Max: 45

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System

Paper Name: Logical Organization of Computer-I
Paper Code: CS01 B Min: 0 Max: 45

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System

Paper Name: Practical
Paper Code: CSP01 Min: 0 Max: 60

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lab	6	0.00/0	Practical	-	60	EA	21	60	Marks System

Paper Name: English
Paper Code: EN01 Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Fundamentals of Environmental Studies
Paper Code: EVS Min: 35 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	-	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Mathematics: Algebra
Paper Code: MA01 A Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Calculus
Paper Code: MA01 B Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Solid Geometry Paper Code: MA01 C Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Physics: Classical Mechanics & Theory of Relativity Paper Code: PH01 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Physics: Electricity, Magnetism & Electro Magnetic Theory Paper Code: PH01 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Term: Sem-II Separate Passing Head: No, Min Papers: 9, Max Papers: 12, Min: 0, Max: 650

The papers under Sem-II are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ2 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Basic Computer Course Paper Code: CCEL-1 Min: 26 Max: 75									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	2.00/3.00	Theory	18	50	EA	12	35	Marks System
						IA	-	15	Marks System
Practical	1	1.00/3.00	Practical	-	25	IA	-	25	Marks System
Paper Name: PC-Software Paper Code: CS02 A Min: 0 Max: 45									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System
Paper Name: Logical Organization of Computer-II Paper Code: CS02 B Min: 0 Max: 45									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System
Paper Name: Computer Science Practical Paper Code: CSP02 Min: 0 Max: 60									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	4	0.00/0	Practical	-	60	EA	21	60	Marks System
Paper Name: English Paper Code: EN02 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Fundamentals of Environmental Studies Paper Code: EVS Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Mathematics: Number Theory and Trigonometry Paper Code: MA02 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Mathematics: Ordinary Differential Equations Paper Code: MA02 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Mathematics: Vector Calculus Paper Code: MA02 C Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Physics: Properties of Matter & Kinetic Theory of Gases Paper Code: PH02 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Physics: Semiconductor Devices Paper Code: PH02 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Physics Practical Paper Code: PH02 C Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lab	6	0.00/0	Practical	-	100	EA	35	100	Marks System

Course Part: S.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-III Separate Passing Head: No, Min Papers: 9, Max Papers: 11, Min: 0, Max: 450

The papers under Sem-III are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ4 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Data Structure using 'C' Paper Code: CS03 A Min: 0 Max: 45									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System

Paper Name: Structured System Analysis & Design
Paper Code: CS03 B Min: 0 Max: 45

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System

Paper Name: Computer Practical
Paper Code: CSP 03 Min: 0 Max: 60

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	4	0.00/0	Practical	-	60	EA	-	60	Marks System

Paper Name: Fundamentals of Environmental Studies (Qualifying)
Paper Code: EVS2 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi
Paper Code: HI03 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Advanced Calculus
Paper Code: MA03 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Partial Differential Equations
Paper Code: MA03 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Statics
Paper Code: MA03 C Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Wave and Optics-I
Paper Code: PH03 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Computer Programming and Thermodynamics
Paper Code: PH03 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Punjabi
Paper Code: PU03 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Sanskrit Paper Code: SA03 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Term: Sem-IV Separate Passing Head: No, Min Papers: 11, Max Papers: 13, Min: 0, Max: 550

The papers under Sem-IV are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ4 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Operating Systems Paper Code: CS04 A Min: 0 Max: 45									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System
Paper Name: Programming in Visual Basic Paper Code: CS04 B Min: 0 Max: 45									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System
Paper Name: Computer Science Practical Paper Code: CS04 P Min: 0 Max: 60									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	2	0.00/0	Practical	-	60	EA	21	60	Marks System
Paper Name: Environmental Pollution Paper Code: EVS04 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Hindi Paper Code: HI04 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System
Paper Name: Mathematics: Sequence and Series Paper Code: MA04 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Mathematics: Special Functions & Integral Transforms Paper Code: MA04 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Mathematics: Programming in C and Numerical Methods Paper Code: MA04 C Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	30	Marks System

Paper Name: Math Practical Paper Code: MA04-P Min: 0 Max: 20									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	2	0.00/0	Practical	-	20	EA	7	20	Marks System
Paper Name: Physics: Statistical Physics Paper Code: PH04 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Physics: Wave and Optics-II Paper Code: PH04 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Physics Practical Paper Code: PH04 P Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	2	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Punjabi Paper Code: PU04 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System
Paper Name: Sanskrit Paper Code: SA04 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Course Part: T.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1500

Term: Sem-V Separate Passing Head: No, Min Papers: 9, Max Papers: 11, Min: 0, Max: 750

The papers under Sem-V are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ4 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Programming in C++ Paper Code: CS05 A Min: 0 Max: 45									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System
Paper Name: Introduction to Data Base Systems Paper Code: CS05 B Min: 0 Max: 45									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System
Paper Name: Computer Science Practical Paper Code: CS05 P Min: 0 Max: 60									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Practical	-	60	EA	-	60	Marks System

Paper Name: Environmental Conservation and Society Paper Code: EVS05 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Mathematics: Real Analysis Paper Code: MA05 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Mathematics: Group & Rings Paper Code: MA05 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Mathematics: Numerical Analysis Paper Code: MA05 C Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	30	EA	-	30	Marks System
Paper Name: Math Practical Paper Code: MA05 P Min: 0 Max: 20									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Practical	-	20	EA	-	20	Marks System
Paper Name: Physics: Quantum Mechanics And Laser Physics Paper Code: PH05 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Physics: Nuclear Physics Paper Code: PH05 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Term: Sem-VI Separate Passing Head: No, Min Papers: 9, Max Papers: 10, Min: 0, Max: 700

The papers under Sem-VI are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ4 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Computer Networks Paper Code: CS06 A Min: 0 Max: 45									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System
Paper Name: Relational Database Management System Paper Code: CS06 B Min: 0 Max: 45									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	45	EA	-	30	Marks System
						IA	-	15	Marks System

Paper Name: Computer Science Practical
Paper Code: CS06 P Min: 0 Max: 60

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	60	EA	-	60	Marks System

Paper Name: Environmental Conservation and Society
Paper Code: EVS06 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Mathematics: Real and Complex Analysis
Paper Code: MA06 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Linear Algebra
Paper Code: MA06 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Dynamics
Paper Code: MA06 C Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Solid State & Nano Physics
Paper Code: PH06 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Atomic & Molecular Spectroscopy
Paper Code: PH06 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics Practical
Paper Code: PH06 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	4	0.00/0	Practical	-	100	EA	-	100	Marks System

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Course Structure Scheme

For

Under Graduate,
3 Year(s) Bachelor Degree Program in

Faculty of Life Science

Bachelor of Science(B.Sc.)
(w.e.f. 2017-18-Regular)

Medical

Course Code: -

For Academic Year 2018-2019

Publisher's Note

This Chaudhary Devi Lal University has great Pleasure in publishing this course structure for Under Graduate course for 3 Year(s) Bachelor Degree Program as "Bachelor of Science" (w.e.f. 2017-18 - Regular) (Medical) under the Faculty of "Faculty of Life Science".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

Date: 1/18/2020 2:53:12 PM
Chaudhary Devi Lal University,Sirsa, Haryana, Pin-125055, (India)

Registrar

Course Objective(s)

The Bachelor of Science Consists of following 3 course part(s):

Sr.No.	Course Part Name	Course Part Abbrevation	Examination Pattern
1	First Year Bachelor of Science	F.Y.B.Sc.	Semester
2	Second Year Bachelor of Science	S.Y.B.Sc.	Semester
3	Third Year Bachelor of Science	T.Y.B.Sc.	Semester

The Bachelor of Science is available in following medium of instruction/s:

1. Hindi/English

Course Part: F.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-I Separate Passing Head: No, Min Courses: 7, Max Courses: 10, Min:0,Max:350

The papers for F.Y.B.Sc. - Sem-I are classified into following groups:

1.Course Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Elective Group-I (Min Papers: 7, Max Papers: 8,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 7 paper(s)
Select maximum 8 paper(s)

Papers:

CH01 A	Chemistry: Inorganic Chemistry
CH01 B	Chemistry: Physical Chemistry
CH01 C	Chemistry: Organic Chemistry
EN01	English
BT01 A	Biotechnology: Introduction to Biotechnology
BT01 B	Biotechnology: Bio-Chemistry-I
BO01 A	Botany: Diversity of Microbes
BO01 B	Botany: Cell Biology
ZO01 A	Zoology: Life & Diversity from Protozoa to Purifera & Cell Biology-I
ZO01 B	Zoology: Life & Diversity from Coelentrata to Helminths & Cell Biology-II

2.Elective Group-II (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

EVS	Fundamentals of Environmental Studies
CAQ2	Computer Awareness (Qualifying)

Term: Sem-II Separate Passing Head: No, Min Courses: 10, Max Courses: 13, Min:0,Max:1100

The papers for F.Y.B.Sc. - Sem-II are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 4,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 4 SubGroup(s)

SubGroups:

1.Core Group (Min Papers: 4, Max Papers: 8,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 4 paper(s)
Select maximum 8 paper(s)

Papers:

EN02	English
CH02 A	Chemistry: Inorganic Chemistry
CH02 B	Chemistry: Physical Chemistry
CH02 C	Chemistry: Organic Chemistry
ZO02 A	Zoology: Life & Diversity from Protozoa to Purifera & Cell Biology-I
ZO02 B	Zoology: Life & Diversity from Coelentrata to Helminths & Cell Biology-II
ZO02 C	Zoology Practical
CH02 P	Chemistry Practical

2.Elective Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

EVS	Fundamentals of Environmental Studies
CCEL-1	Basic Computer Course

3.Medical Biotech Paper (Min Papers: 3, Max Papers: 3, Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BT02 A	Biotechnology: General Microbiology
BT02 B	Biotechnology: Biochemistry-II
BT02 P	Biotechnology Practical

4.Medical Botany Paper (Min Papers: 3, Max Papers: 3, Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BO02 A	Botany: Diversity of Archegoniates
BO02 B	Botany: Genetics
BO02 C	Botany Practical

Course Part: S.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-III Separate Passing Head: No, Min Courses: 7, Max Courses: 10, Min:0,Max:350

The papers for S.Y.B.Sc. - Sem-III are classified into following groups:

1.Course Group (Min Subgroups: 3, Max SubGroups: 5,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 SubGroup(s)
Select maximum 5 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

HI03	Hindi
PU03	Punjabi
SA03	Sanskrit

2.Core Group II (Min Papers: 2, Max Papers: 5,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 5 paper(s)

Papers:

CH03 A	Chemistry: Inorganic Chemistry
CH03 B	Chemistry: Physical Chemistry
CH03 C	Chemistry: Organic Chemistry
ZO03 A	Zoology: Life & Diversity of Chordates-I
ZO03 B	Zoology : Mammalian Physiology-I

3.Medical Biotech. Paper (Min Papers: 2, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

BT03 A	Biotechnology: Immunology
BT03 B	Biotechnology: Molecular Biology

4.Medical Botany Paper (Min Papers: 2, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

BO03 A	Botany: Biology and Diversity of Seed Plants-I
BO03 B	Botany: Plant Anatomy

5.Qualifying Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS2	Fundamentals of Environmental Studies (Qualifying)

Term: Sem-IV Separate Passing Head: No, Min Courses: 11, Max Courses: 14, Min:0,Max:650

The papers for S.Y.B.Sc. - Sem-IV are classified into following groups:

1.Course Group (Min Subgroups: 3, Max SubGroups: 4,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 SubGroup(s)
Select maximum 4 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)

Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

HI04	Hindi
PU04	Punjabi
SA04	Sanskrit

2.Core Group II (Min Papers: 3, Max Papers: 7,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 7 paper(s)

Papers:

CH04 A	Chemistry: Inorganic Chemistry
CH04 B	Chemistry: Physical Chemistry
CH04 C	Chemistry: Organic Chemistry
CH04 P	Chemistry Practical
ZO04 A	Zoology: Life & Diversity of Chordates-II
ZO04 B	Zoology: Mammalian Physiology-II
ZO04 P	Zoology Practical

3.Elective Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Medical Biotech Paper (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BT04 A	Biotechnology: Recombinant DNA Technology
BT04 B	Biotechnology: Bioinformatics
BT04 P	Biotechnology Practical

2.Medical Botany Paper (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BO04 A	Botany: Biology & Diversity of Seed Plants-II
BO04 B	Botany: Plant Embryology
BO04 P	Botany Practical

4.Qualifying Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS04	Environmental Pollution

Course Part: T.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-V Separate Passing Head: No, Min Courses: 7, Max Courses: 11, Min:0,Max:750

The papers for T.Y.B.Sc. - Sem-V are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 3 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 5, Max Papers: 5,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 5 paper(s)
Select maximum 5 paper(s)

Papers:

CH05 A	Chemistry: Inorganic Chemistry
CH05 B	Chemistry: Physical Chemistry
CH05 C	Chemistry: Organic Chemistry
ZO05 A	Zoology: Environmental Biology
ZO05 B	Zoology: Evolution & Developmental Biology

2.Elective Group (Min Subgroups: 1, Max SubGroups: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)

SubGroups:

1.Medical Biotech Paper (Min Papers: 2, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

BT05 A	Biotechnology: Animal Biotechnology
BT05 B	Biotechnology: Plant Biotechnology

2.Medical Botany Paper (Min Papers: 2, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

BO05 A	Botany: Plant Physiology
BO05 B	Botany: Ecology

3.Qualifying Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS05	Environmental Conservation and Society

Term: Sem-VI Separate Passing Head: No, Min Courses: 9, Max Courses: 12, Min:0,Max:500

The papers for T.Y.B.Sc. - Sem-VI are classified into following groups:

1.Main Group (Min Subgroups: 2, Max SubGroups: 4,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 4 SubGroup(s)

SubGroups:

1.Core Group (Min Papers: 3, Max Papers: 7,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 7 paper(s)

Papers:

ZO06 A	Zoology: Aquaculture & Pest Management-I
ZO06 B	Zoology: Aquaculture & Pest Management-II
CH06 A	Chemistry: Inorganic Chemistry
CH06 C	Chemistry: Organic Chemistry
CH06 B	Chemistry: Physical Chemistry
CH06 P	Chemistry Practical
ZO06 P	Zoology Practical

2.Elective (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS06	Environmental Conservation and Society

3.Elective Group (Min Subgroups: 1, Max SubGroups: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)

SubGroups:

1.Medical Biotech Paper (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BT06 A	Biotechnology : Microbial Bio-technology
BT06 B	Project Work (In House)
BT06 P	Biotechnology Practical

2.Medical Botany Paper (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BO06 A	Botany: Bio-Chemistry & Plant Bio-Technology
BO06 B	Botany: Economic Botany
BO06 P	Botany Practical

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Course Structure Scheme

For

Under Graduate,
3 Year(s) Bachelor Degree Program in

Faculty of Life Science

Bachelor of Science(B.Sc.)
(w.e.f. 2017-18-Regular)

Medical

Course Code: -

For Academic Year 2019-2020

Publisher's Note

This Chaudhary Devi Lal University has great Pleasure in publishing this course structure for Under Graduate course for 3 Year(s) Bachelor Degree Program as "Bachelor of Science" (w.e.f. 2017-18 - Regular) (Medical) under the Faculty of "Faculty of Life Science".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

Date: 1/18/2020 2:53:12 PM
Chaudhary Devi Lal University,Sirsa, Haryana, Pin-125055, (India)

Registrar

Course Objective(s)

The Bachelor of Science Consists of following 3 course part(s):

Sr.No.	Course Part Name	Course Part Abbrevation	Examination Pattern
1	First Year Bachelor of Science	F.Y.B.Sc.	Semester
2	Second Year Bachelor of Science	S.Y.B.Sc.	Semester
3	Third Year Bachelor of Science	T.Y.B.Sc.	Semester

The Bachelor of Science is available in following medium of instruction/s:

1. Hindi/English

Course Part: F.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-I Separate Passing Head: No, Min Courses: 7, Max Courses: 10, Min:0,Max:350

The papers for F.Y.B.Sc. - Sem-I are classified into following groups:

1.Course Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Elective Group-I (Min Papers: 7, Max Papers: 8,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 7 paper(s)
Select maximum 8 paper(s)

Papers:

CH01 A	Chemistry: Inorganic Chemistry
CH01 B	Chemistry: Physical Chemistry
CH01 C	Chemistry: Organic Chemistry
EN01	English
BT01 A	Biotechnology: Introduction to Biotechnology
BT01 B	Biotechnology: Bio-Chemistry-I
BO01 A	Botany: Diversity of Microbes
BO01 B	Botany: Cell Biology
ZO01 A	Zoology: Life & Diversity from Protozoa to Purifera & Cell Biology-I
ZO01 B	Zoology: Life & Diversity from Coelentrata to Helminths & Cell Biology-II

2.Elective Group-II (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

EVS	Fundamentals of Environmental Studies
CAQ2	Computer Awareness (Qualifying)

Term: Sem-II Separate Passing Head: No, Min Courses: 10, Max Courses: 13, Min:0,Max:1100

The papers for F.Y.B.Sc. - Sem-II are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 4,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 4 SubGroup(s)

SubGroups:

1.Core Group (Min Papers: 4, Max Papers: 8,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 4 paper(s)
Select maximum 8 paper(s)

Papers:

EN02	English
CH02 A	Chemistry: Inorganic Chemistry
CH02 B	Chemistry: Physical Chemistry
CH02 C	Chemistry: Organic Chemistry
ZO02 C	Zoology Practical
CH02 P	Chemistry Practical
ZO02 A	Zoology: Life and Diversity from Annelida to Arthropoda and Genetics-I
ZO02 B	Zoology: Life and Diversity from Molluaska to Hemichordata and Genetics-II

2.Elective Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

EVS	Fundamentals of Environmental Studies
CCEL-1	Basic Computer Course

3.Medical Biotech Paper (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BT02 A	Biotechnology: General Microbiology
BT02 B	Biotechnology: Biochemistry-II
BT02 P	Biotechnology Practical

4.Medical Botany Paper (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BO02 A	Botany: Diversity of Archegoniates
BO02 B	Botany: Genetics
BO02 C	Botany Practical

Course Part: S.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-III Separate Passing Head: No, Min Courses: 7, Max Courses: 10, Min:0,Max:350

The papers for S.Y.B.Sc. - Sem-III are classified into following groups:

1.Course Group (Min Subgroups: 3, Max SubGroups: 5,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 SubGroup(s)
Select maximum 5 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

HI03	Hindi
PU03	Punjabi
SA03	Sanskrit

2.Core Group II (Min Papers: 2, Max Papers: 5,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 5 paper(s)

Papers:

CH03 A	Chemistry: Inorganic Chemistry
CH03 B	Chemistry: Physical Chemistry
CH03 C	Chemistry: Organic Chemistry
ZO03 A	Zoology: Life & Diversity of Chordates-I
ZO03 B	Zoology : Mammalian Physiology-I

3.Medical Biotech. Paper (Min Papers: 2, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

BT03 A	Biotechnology: Immunology
BT03 B	Biotechnology: Molecular Biology

4.Medical Botany Paper (Min Papers: 2, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

BO03 A	Botany: Biology and Diversity of Seed Plants-I
BO03 B	Botany: Plant Anatomy

5.Qualifying Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS2	Fundamentals of Environmental Studies (Qualifying)

Term: Sem-IV Separate Passing Head: No, Min Courses: 11, Max Courses: 14, Min:0,Max:650

The papers for S.Y.B.Sc. - Sem-IV are classified into following groups:

1.Course Group (Min Subgroups: 3, Max SubGroups: 4,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 SubGroup(s)
Select maximum 4 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)

Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

HI04	Hindi
PU04	Punjabi
SA04	Sanskrit

2.Core Group II (Min Papers: 3, Max Papers: 7,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 7 paper(s)

Papers:

CH04 A	Chemistry: Inorganic Chemistry
CH04 B	Chemistry: Physical Chemistry
CH04 C	Chemistry: Organic Chemistry
CH04 P	Chemistry Practical
ZO04 A	Zoology: Life & Diversity of Chordates-II
ZO04 B	Zoology: Mammalian Physiology-II
ZO04 P	Zoology Practical

3.Elective Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Medical Biotech Paper (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BT04 A	Biotechnology: Recombinant DNA Technology
BT04 B	Biotechnology: Bioinformatics
BT04 P	Biotechnology Practical

2.Medical Botany Paper (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BO04 A	Botany: Biology & Diversity of Seed Plants-II
BO04 B	Botany: Plant Embryology
BO04 P	Botany Practical

4.Qualifying Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS04	Environmental Pollution

Course Part: T.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-V Separate Passing Head: No, Min Courses: 7, Max Courses: 11, Min:0,Max:750

The papers for T.Y.B.Sc. - Sem-V are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 3 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 5, Max Papers: 5,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 5 paper(s)
Select maximum 5 paper(s)

Papers:

CH05 A	Chemistry: Inorganic Chemistry
CH05 B	Chemistry: Physical Chemistry
CH05 C	Chemistry: Organic Chemistry
ZO05 A	Zoology: Environmental Biology
ZO05 B	Zoology: Evolution & Developmental Biology

2.Elective Group (Min Subgroups: 1, Max SubGroups: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)

SubGroups:

1.Medical Biotech Paper (Min Papers: 2, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

BT05 A	Biotechnology: Animal Biotechnology
BT05 B	Biotechnology: Plant Biotechnology

2.Medical Botany Paper (Min Papers: 2, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

BO05 A	Botany: Plant Physiology
BO05 B	Botany: Ecology

3.Qualifying Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS05	Environmental Conservation and Society

Term: Sem-VI Separate Passing Head: No, Min Courses: 9, Max Courses: 12, Min:0,Max:500

The papers for T.Y.B.Sc. - Sem-VI are classified into following groups:

1.Main Group (Min Subgroups: 2, Max SubGroups: 4,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 4 SubGroup(s)

SubGroups:

1.Core Group (Min Papers: 3, Max Papers: 7,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 7 paper(s)

Papers:

ZO06 A	Zoology: Aquaculture & Pest Management-I
ZO06 B	Zoology: Aquaculture & Pest Management-II
CH06 A	Chemistry: Inorganic Chemistry
CH06 C	Chemistry: Organic Chemistry
CH06 B	Chemistry: Physical Chemistry
CH06 P	Chemistry Practical
ZO06 P	Zoology Practical

2.Elective (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS06	Environmental Conservation and Society

3.Elective Group (Min Subgroups: 1, Max SubGroups: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)

SubGroups:

1.Medical Biotech Paper (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BT06 A	Biotechnology : Microbial Bio-technology
BT06 B	Project Work (In House)
BT06 P	Biotechnology Practical

2.Medical Botany Paper (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

BO06 A	Botany: Bio-Chemistry & Plant Bio-Technology
BO06 B	Botany: Economic Botany
BO06 P	Botany Practical

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Paper Assessment Scheme

For

Under Graduate Course,
For 3 Year(s) Bachelor Degree Program in

Faculty of Life Science

Bachelor of Science(B.Sc.)
(w.e.f. 2017-18-Regular)
Medical
Course Code: -

Papers

Teaching And Assessment Scheme

Abbreviations : TLM - Teaching Learning Method, AM - Assessment Method, AT - Assessment Type, EA - External Assessment, IA - Internal Assessment, Hrs - Contact Hours per Week, MS - Marks System, GS - Grade System, Min - Minimum Marks, Max - Maximum Marks, DG - Direct Grading, IG - Indirect Grading

Course Part: F.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-I Separate Passing Head: No, Min Papers: 7, Max Papers: 10, Min: 0, Max: 350

The papers under Sem-I are as follows:

Paper Name: Botany: Diversity of Microbes
Paper Code: BO01 A Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Botany: Cell Biology
Paper Code: BO01 B Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Biotechnology: Introduction to Biotechnology
Paper Code: BT01 A Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Biotechnology: Bio-Chemistry-I
Paper Code: BT01 B Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ2 Min: 0 Max: 200

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Chemistry: Inorganic Chemistry
Paper Code: CH01 A Min: 0 Max: 33

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Chemistry: Physical Chemistry
Paper Code: CH01 B Min: 0 Max: 33

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry: Organic Chemistry Paper Code: CH01 C Min: 0 Max: 34									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System
Paper Name: English Paper Code: EN01 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System
Paper Name: Fundamentals of Environmental Studies Paper Code: EVS Min: 35 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	-	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Zoology: Life & Diversity from Protozoa to Purifera & Cell Biology-I Paper Code: ZO01 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Zoology: Life & Diversity from Coelentrata to Helminths & Cell Biology-II Paper Code: ZO01 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Term: Sem-II Separate Passing Head: No, Min Papers: 10, Max Papers: 13, Min: 0, Max: 1100

The papers under Sem-II are as follows:

Paper Name: Botany: Diversity of Archegoniates Paper Code: BO02 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Botany: Genetics Paper Code: BO02 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Botany Practical Paper Code: BO02 C Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	6	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Biotechnology: General Microbiology Paper Code: BT02 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Biotechnology: Biochemistry-II
Paper Code: BT02 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Biotechnology Practical
Paper Code: BT02 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	6	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ2 Min: 0 Max: 200

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Basic Computer Course
Paper Code: CCEL-1 Min: 26 Max: 75

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	2.00/3.00	Theory	18	50	EA	12	35	Marks System
						IA	-	15	Marks System
Practical	1	1.00/3.00	Practical	-	25	IA	-	25	Marks System

Paper Name: Chemistry: Inorganic Chemistry
Paper Code: CH02 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Chemistry: Physical Chemistry
Paper Code: CH02 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry: Organic Chemistry
Paper Code: CH02 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry Practical
Paper Code: CH02 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lab	6	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: English
Paper Code: EN02 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Fundamentals of Environmental Studies
Paper Code: EVS Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Zoology: Life & Diversity from Protozoa to Purifera & Cell Biology-I Paper Code: ZO02 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Zoology: Life and Diversity from Annelida to Arthropoda and Genetics-I Paper Code: ZO02 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Zoology: Life and Diversity from Molluaska to Hemichordata and Genetics-II Paper Code: ZO02 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Zoology: Life & Diversity from Coelentrata to Helminths & Cell Biology-II Paper Code: ZO02 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Zoology Practical Paper Code: ZO02 C Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Practical	-	100	EA	35	100	Marks System

Course Part: S.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-III Separate Passing Head: No, Min Papers: 7, Max Papers: 10, Min: 0, Max: 350

The papers under Sem-III are as follows:

Paper Name: Botany: Biology and Diversity of Seed Plants-I Paper Code: BO03 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Botany: Plant Anatomy Paper Code: BO03 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Biotechnology: Immunology Paper Code: BT03 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Biotechnology: Molecular Biology Paper Code: BT03 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ4 Min: 0 Max: 200

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Chemistry: Inorganic Chemistry
Paper Code: CH03 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Chemistry: Physical Chemistry
Paper Code: CH03 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry: Organic Chemistry
Paper Code: CH03 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Fundamentals of Environmental Studies (Qualifying)
Paper Code: EVS2 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi
Paper Code: HI03 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Punjabi
Paper Code: PU03 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Sanskrit
Paper Code: SA03 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Zoology: Life & Diversity of Chordates-I
Paper Code: ZO03 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Zoology : Mammalian Physiology-I
Paper Code: ZO03 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Term: Sem-IV Separate Passing Head: No, Min Papers: 11, Max Papers: 14, Min: 0, Max: 650

The papers under Sem-IV are as follows:

Paper Name: Botany: Biology & Diversity of Seed Plants-II
Paper Code: BO04 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Botany: Plant Embryology
Paper Code: BO04 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Botany Practical
Paper Code: BO04 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Biotechnology: Recombinant DNA Technology
Paper Code: BT04 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Biotechnology: Bioinformatics
Paper Code: BT04 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Biotechnology Practical
Paper Code: BT04 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ4 Min: 0 Max: 200

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Chemistry: Inorganic Chemistry
Paper Code: CH04 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Chemistry: Physical Chemistry
Paper Code: CH04 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry: Organic Chemistry
Paper Code: CH04 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry Practical
Paper Code: CH04 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Environmental Pollution
Paper Code: EVS04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi
Paper Code: HI04 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Punjabi
Paper Code: PU04 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Sanskrit
Paper Code: SA04 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Zoology: Life & Diversity of Chordates-II
Paper Code: ZO04 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Zoology: Mammalian Physiology-II
Paper Code: ZO04 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Zoology Practical
Paper Code: ZO04 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	100	EA	35	100	Marks System

Course Part: T.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-V Separate Passing Head: No, Min Papers: 7, Max Papers: 11, Min: 0, Max: 750

The papers under Sem-V are as follows:

Paper Name: Botany: Plant Physiology
Paper Code: BO05 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Botany: Ecology
Paper Code: BO05 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Biotechnology: Animal Biotechnology
Paper Code: BT05 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Biotechnology: Plant Biotechnology
Paper Code: BT05 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ4 Min: 0 Max: 200

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Chemistry: Inorganic Chemistry
Paper Code: CH05 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Chemistry: Physical Chemistry
Paper Code: CH05 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry: Organic Chemistry
Paper Code: CH05 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Environmental Conservation and Society
Paper Code: EVS05 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Zoology: Environmental Biology
Paper Code: ZO05 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Zoology: Evolution & Developmental Biology
Paper Code: ZO05 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Term: Sem-VI Separate Passing Head: No, Min Papers: 9, Max Papers: 12, Min: 0, Max: 500

The papers under Sem-VI are as follows:

Paper Name: Botany: Bio-Chemistry & Plant Bio-Technology
Paper Code: BO06 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Botany: Economic Botany
Paper Code: BO06 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Botany Practical
Paper Code: BO06 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	4	0.00/0	Practical	-	100	EA	-	100	Marks System

Paper Name: Biotechnology : Microbial Bio-technology
Paper Code: BT06 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Project Work (In House)
Paper Code: BT06 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Viva-Voce	-	50	IA	18	50	Marks System

Paper Name: Biotechnology Practical
Paper Code: BT06 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	4	0.00/0	Practical	-	100	EA	-	100	Marks System

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ4 Min: 0 Max: 200

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Chemistry: Inorganic Chemistry
Paper Code: CH06 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Chemistry: Physical Chemistry
Paper Code: CH06 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry: Organic Chemistry
Paper Code: CH06 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry Practical Paper Code: CH06 P Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	4	0.00/0	Practical	-	100	EA	-	100	Marks System
Paper Name: Environmental Conservation and Society Paper Code: EVS06 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Zoology: Aquaculture & Pest Management-I Paper Code: ZO06 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Zoology: Aquaculture & Pest Management-II Paper Code: ZO06 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Zoology Practical Paper Code: ZO06 P Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	4	0.00/0	Practical	-	100	EA	-	100	Marks System

Chaudhary Devi Lal University
Sirsa, Haryana, Pin- 125055, (India)

Course Structure Scheme

For

Under Graduate,
3 Year(s) Bachelor Degree Program in

Faculty of Life Science

Bachelor of Science(B.Sc.)
(w.e.f. 2017-18-Regular)

Non-Medical

Course Code: -

For Academic Year 2018-2019

Publisher's Note

This Chaudhary Devi Lal University has great Pleasure in publishing this course structure for Under Graduate course for 3 Year(s) Bachelor Degree Program as "Bachelor of Science" (w.e.f. 2017-18 - Regular) (Non-Medical) under the Faculty of "Faculty of Life Science".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

Date: 1/18/2020 2:53:12 PM
Chaudhary Devi Lal University,Sirsa, Haryana, Pin-125055, (India) Registrar

Course Objective(s)

The Bachelor of Science Consists of following 3 course part(s):

Sr.No.	Course Part Name	Course Part Abbrevation	Examination Pattern
1	First Year Bachelor of Science	F.Y.B.Sc.	Semester
2	Second Year Bachelor of Science	S.Y.B.Sc.	Semester
3	Third Year Bachelor of Science	T.Y.B.Sc.	Semester

The Bachelor of Science is available in following medium of instruction/s:

1. Hindi/English

Course Part: F.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-I Separate Passing Head: No, Min Courses: 9, Max Courses: 11, Min:0,Max:400

The papers for F.Y.B.Sc. - Sem-I are classified into following groups:

1.Course Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Elective Group-I (Min Papers: 9, Max Papers: 9,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 9 paper(s)
Select maximum 9 paper(s)

Papers:

CH01 A	Chemistry: Inorganic Chemistry
CH01 B	Chemistry: Physical Chemistry
CH01 C	Chemistry: Organic Chemistry
EN01	English
MA01 A	Mathematics: Algebra
MA01 B	Mathematics: Calculus
MA01 C	Mathematics: Solid Geometry
PH01 A	Physics: Classical Mechanics & Theory of Relativity
PH01 B	Physics: Electricity, Magnetism & Electro Magnetic Theory

2.Elective Group-II (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

EVS	Fundamentals of Environmental Studies
CAQ2	Computer Awareness (Qualifying)

Term: Sem-II Separate Passing Head: No, Min Courses: 11, Max Courses: 13, Min:0,Max:600

The papers for F.Y.B.Sc. - Sem-II are classified into following groups:

1.Course Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Core Group (Min Papers: 11, Max Papers: 11,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 11 paper(s)
Select maximum 11 paper(s)

Papers:

EN02	English
MA02 A	Mathematics: Number Theory and Trigonometry
MA02 B	Mathematics: Ordinary Differential Equations
MA02 C	Mathematics: Vector Calculus
CH02 A	Chemistry: Inorganic Chemistry
CH02 B	Chemistry: Physical Chemistry
CH02 C	Chemistry: Organic Chemistry
PH02 A	Physics: Properties of Matter & Kinetic Theory of Gases
PH02 B	Physics: Semiconductor Devices
PH02 C	Physics Practical
CH02 P	Chemistry Practical

2.Elective Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:		
	EVS	Fundamentals of Environmental Studies
	CCEL-1	Basic Computer Course

Course Part: S.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-III Separate Passing Head: No, Min Courses: 9, Max Courses: 11, Min:0,Max:400

The papers for S.Y.B.Sc. - Sem-III are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 3 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

HI03	Hindi
PU03	Punjabi
SA03	Sanskrit

2.Core Group II (Min Papers: 8, Max Papers: 8,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 8 paper(s)
Select maximum 8 paper(s)

Papers:

CH03 A	Chemistry: Inorganic Chemistry
CH03 B	Chemistry: Physical Chemistry
CH03 C	Chemistry: Organic Chemistry
MA03 A	Mathematics: Advanced Calculus
MA03 B	Mathematics: Partial Differential Equations
MA03 C	Mathematics: Statics
PH03 A	Physics: Wave and Optics-I
PH03 B	Physics: Computer Programming and Thermodynamics

3.Qualifying Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS2	Fundamentals of Environmental Studies (Qualifying)
EVS04	Environmental Pollution

Term: Sem-IV Separate Passing Head: No, Min Courses: 12, Max Courses: 14, Min:0,Max:600

The papers for S.Y.B.Sc. - Sem-IV are classified into following groups:

1.Course Group (Min Subgroups: 2, Max SubGroups: 3,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 2 SubGroup(s)
Select maximum 3 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

HI04	Hindi
PU04	Punjabi
SA04	Sanskrit

2.Core Group II (Min Papers: 11, Max Papers: 11,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 11 paper(s)
Select maximum 11 paper(s)

Papers:

CH04 A	Chemistry: Inorganic Chemistry
CH04 B	Chemistry: Physical Chemistry
CH04 C	Chemistry: Organic Chemistry
CH04 P	Chemistry Practical
MA04 A	Mathematics: Sequence and Series
MA04 B	Mathematics: Special Functions & Integral Transforms
MA04 C	Mathematics: Programming in C and Numerical Methods
MA04-P	Math Practical
PH04 A	Physics: Statistical Physics
PH04 B	Physics: Wave and Optics-II
PH04 P	Physics Practical

3.Qualifying Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS04	Environmental Pollution
CAQ4	Computer Awareness (L-2)

Course Part: T.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-V Separate Passing Head: No, Min Courses: 9, Max Courses: 11, Min:0,Max:600

The papers for T.Y.B.Sc. - Sem-V are classified into following groups:

1.Course Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Core Group I (Min Papers: 9, Max Papers: 9,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 9 paper(s)
Select maximum 9 paper(s)

Papers:

CH05 A	Chemistry: Inorganic Chemistry
CH05 B	Chemistry: Physical Chemistry
CH05 C	Chemistry: Organic Chemistry
PH05 A	Physics: Quantum Mechanics And Laser Physics
PH05 B	Physics: Nuclear Physics
MA05 A	Mathematics: Real Analysis
MA05 B	Mathematics: Group & Rings
MA05 C	Mathematics: Numerical Analysis
MA05 P	Math Practical

2.Qualifying Group (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS05	Environmental Conservation and Society

Term: Sem-VI Separate Passing Head: No, Min Courses: 10, Max Courses: 12, Min:0,Max:600

The papers for T.Y.B.Sc. - Sem-VI are classified into following groups:

1.Main Group (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)

SubGroups:

1.Core Group (Min Papers: 10, Max Papers: 10,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 10 paper(s)
Select maximum 10 paper(s)

Papers:

CH06 A	Chemistry: Inorganic Chemistry
CH06 C	Chemistry: Organic Chemistry
CH06 B	Chemistry: Physical Chemistry
MA06 A	Mathematics: Real and Complex Analysis
MA06 B	Mathematics: Linear Algebra
MA06 C	Mathematics: Dynamics
PH06 A	Physics: Solid State & Nano Physics
PH06 B	Physics: Atomic & Molecular Spectroscopy
PH06 P	Physics Practical
CH06 P	Chemistry Practical

2.Elective (Min Papers: 1, Max Papers: 2,
Separate Passing Head: No, Max. Marks: 0)
Select minimum 1 paper(s)
Select maximum 2 paper(s)

Papers:

CAQ4	Computer Awareness (Qualifying)
EVS06	Environmental Conservation and Society
CAQ6	Computer Awareness (Qualifying)

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Paper Assessment Scheme

For

Under Graduate Course,
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Bachelor of Science(B.Sc.)
(w.e.f. 2017-18-Regular)
Non-Medical
Course Code: -

Papers

Teaching And Assessment Scheme

Abbreviations : TLM - Teaching Learning Method, AM - Assessment Method, AT - Assessment Type, EA - External Assessment, IA - Internal Assessment, Hrs - Contact Hours per Week, MS - Marks System, GS - Grade System, Min - Minimum Marks, Max - Maximum Marks, DG - Direct Grading, IG - Indirect Grading

Course Part: F.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-I Separate Passing Head: No, Min Papers: 9, Max Papers: 11, Min: 0, Max: 400

The papers under Sem-I are as follows:

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ2 Min: 0 Max: 200

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Chemistry: Inorganic Chemistry
Paper Code: CH01 A Min: 0 Max: 33

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Chemistry: Physical Chemistry
Paper Code: CH01 B Min: 0 Max: 33

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry: Organic Chemistry
Paper Code: CH01 C Min: 0 Max: 34

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: English
Paper Code: EN01 Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Fundamentals of Environmental Studies
Paper Code: EVS Min: 35 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	-	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Mathematics: Algebra
Paper Code: MA01 A Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Calculus
Paper Code: MA01 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Solid Geometry
Paper Code: MA01 C Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Classical Mechanics & Theory of Relativity
Paper Code: PH01 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Electricity, Magnetism & Electro Magnetic Theory
Paper Code: PH01 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Term: Sem-II Separate Passing Head: No, Min Papers: 11, Max Papers: 13, Min: 0, Max: 600

The papers under Sem-II are as follows:

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ2 Min: 0 Max: 200

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Basic Computer Course
Paper Code: CCEL-1 Min: 26 Max: 75

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	2.00/3.00	Theory	18	50	EA	12	35	Marks System
						IA	-	15	Marks System
Practical	1	1.00/3.00	Practical	-	25	IA	-	25	Marks System

Paper Name: Chemistry: Inorganic Chemistry
Paper Code: CH02 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Chemistry: Physical Chemistry
Paper Code: CH02 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry: Organic Chemistry
Paper Code: CH02 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry Practical
Paper Code: CH02 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lab	6	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: English
Paper Code: EN02 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Fundamentals of Environmental Studies
Paper Code: EVS Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Mathematics: Number Theory and Trigonometry
Paper Code: MA02 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Ordinary Differential Equations
Paper Code: MA02 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Vector Calculus
Paper Code: MA02 C Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Properties of Matter & Kinetic Theory of Gases
Paper Code: PH02 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Semiconductor Devices
Paper Code: PH02 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics Practical
Paper Code: PH02 C Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lab	6	0.00/0	Practical	-	100	EA	35	100	Marks System

Course Part: S.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-III Separate Passing Head: No, Min Papers: 9, Max Papers: 11, Min: 0, Max: 400

The papers under Sem-III are as follows:

Paper Name: Computer Awareness (Qualifying)
Paper Code: CAQ4 Min: 0 Max: 200

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Chemistry: Inorganic Chemistry
Paper Code: CH03 A Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System

Paper Name: Chemistry: Physical Chemistry
Paper Code: CH03 B Min: 0 Max: 33

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry: Organic Chemistry
Paper Code: CH03 C Min: 0 Max: 34

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Environmental Pollution
Paper Code: EVS04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Fundamentals of Environmental Studies (Qualifying)
Paper Code: EVS2 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi
Paper Code: HI03 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Advanced Calculus
Paper Code: MA03 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Partial Differential Equations
Paper Code: MA03 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Statics
Paper Code: MA03 C Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Wave and Optics-I Paper Code: PH03 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Physics: Computer Programming and Thermodynamics Paper Code: PH03 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	4	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Punjabi Paper Code: PU03 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System
Paper Name: Sanskrit Paper Code: SA03 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Term: Sem-IV Separate Passing Head: No, Min Papers: 12, Max Papers: 14, Min: 0, Max: 600

The papers under Sem-IV are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ4 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Computer Awareness (L-2) Paper Code: CAQ4 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	0	0.00/0	Practical	-	100	EA	35	100	Marks System
			Theory	-	100	EA	35	100	Marks System
Paper Name: Chemistry: Inorganic Chemistry Paper Code: CH04 A Min: 0 Max: 33									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System
Paper Name: Chemistry: Physical Chemistry Paper Code: CH04 B Min: 0 Max: 33									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System
Paper Name: Chemistry: Organic Chemistry Paper Code: CH04 C Min: 0 Max: 34									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System

Paper Name: Chemistry Practical
Paper Code: CH04 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Environmental Pollution
Paper Code: EVS04 Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Hindi
Paper Code: HI04 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Sequence and Series
Paper Code: MA04 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Special Functions & Integral Transforms
Paper Code: MA04 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Programming in C and Numerical Methods
Paper Code: MA04 C Min: 0 Max: 30

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	30	EA	-	30	Marks System

Paper Name: Math Practical
Paper Code: MA04-P Min: 0 Max: 20

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	20	EA	7	20	Marks System

Paper Name: Physics: Statistical Physics
Paper Code: PH04 A Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Wave and Optics-II
Paper Code: PH04 B Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics Practical
Paper Code: PH04 P Min: 0 Max: 100

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Practical	2	0.00/0	Practical	-	100	EA	35	100	Marks System

Paper Name: Punjabi
Paper Code: PU04 Min: 0 Max: 50

TLM	Hrs	Credits/Paper_Credit	AM	Min	Max	AT	Min	Max	Evaluation System
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Paper Name: Sanskrit Paper Code: SA04 Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	18	50	EA	14	40	Marks System
						IA	-	10	Marks System

Course Part: T.Y.B.Sc. Separate Passing Head: No, Min: 0, Max: 1000

Term: Sem-V Separate Passing Head: No, Min Papers: 9, Max Papers: 11, Min: 0, Max: 600

The papers under Sem-V are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ4 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Chemistry: Inorganic Chemistry Paper Code: CH05 A Min: 0 Max: 33									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System
Paper Name: Chemistry: Physical Chemistry Paper Code: CH05 B Min: 0 Max: 33									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System
Paper Name: Chemistry: Organic Chemistry Paper Code: CH05 C Min: 0 Max: 34									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System
Paper Name: Environmental Conservation and Society Paper Code: EVS05 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System
Paper Name: Mathematics: Real Analysis Paper Code: MA05 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Mathematics: Group & Rings Paper Code: MA05 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Mathematics: Numerical Analysis Paper Code: MA05 C Min: 0 Max: 30									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	30	EA	-	30	Marks System

Paper Name: Math Practical Paper Code: MA05 P Min: 0 Max: 20									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Practical	-	20	EA	-	20	Marks System
Paper Name: Physics: Quantum Mechanics And Laser Physics Paper Code: PH05 A Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System
Paper Name: Physics: Nuclear Physics Paper Code: PH05 B Min: 0 Max: 50									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Term: Sem-VI Separate Passing Head: No, Min Papers: 10, Max Papers: 12, Min: 0, Max: 600

The papers under Sem-VI are as follows:

Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ4 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Computer Awareness (Qualifying) Paper Code: CAQ6 Min: 0 Max: 200									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	3	0.00/0	Theory	-	100	EA	35	100	Marks System
Practical	3	0.00/0	Practical	-	100	EA	35	100	Marks System
Paper Name: Chemistry: Inorganic Chemistry Paper Code: CH06 A Min: 0 Max: 33									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	33	EA	-	27	Marks System
						IA	-	6	Marks System
Paper Name: Chemistry: Physical Chemistry Paper Code: CH06 B Min: 0 Max: 33									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	33	EA	-	26	Marks System
						IA	-	7	Marks System
Paper Name: Chemistry: Organic Chemistry Paper Code: CH06 C Min: 0 Max: 34									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	34	EA	-	27	Marks System
						IA	-	7	Marks System
Paper Name: Chemistry Practical Paper Code: CH06 P Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	4	0.00/0	Practical	-	100	EA	-	100	Marks System
Paper Name: Environmental Conservation and Society Paper Code: EVS06 Min: 0 Max: 100									
TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	6	0.00/0	Theory	35	100	EA	28	80	Marks System
						IA	-	20	Marks System

Paper Name: Mathematics: Real and Complex Analysis
Paper Code: MA06 A Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Linear Algebra
Paper Code: MA06 B Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Mathematics: Dynamics
Paper Code: MA06 C Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Solid State & Nano Physics
Paper Code: PH06 A Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics: Atomic & Molecular Spectroscopy
Paper Code: PH06 B Min: 0 Max: 50

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Lectures	2	0.00/0	Theory	-	50	EA	-	40	Marks System
						IA	-	10	Marks System

Paper Name: Physics Practical
Paper Code: PH06 P Min: 0 Max: 100

TLM	*Hrs*	*Credits/Paper_Credit*	*AM*	*Min*	*Max*	*AT*	*Min*	*Max*	*Evaluation System*
Practical	4	0.00/0	Practical	-	100	EA	-	100	Marks System

Proposed Scheme of Examination for the subject of Computer Science in B.Sc. (Non Medical with Computer Science) w.e.f. 2021-22

Semester-I

Paper Code	Nomenclature	Periods/ week	Marks		
			Ext.	Int.	Total
CS-11	Computer Fundamentals	(6 periods / week)	40	10	50
CS-12	Digital Electronics	(6 periods / week)	40	10	50
CS-13	Computer Lab of PC Software	(two lab sessions of 3 periods each per week per group)	50	-	50

Semester-II

Paper Code	Nomenclature	Periods/ week	Marks		
			Ext.	Int.	Total
CS-21	Programming in C	(6 periods / week)	40	10	50
CS-22	Operating System	(6 periods / week)	40	10	50
CS-23	Computer Lab based on CS-21	(two lab sessions of 3 periods each per week per group)	50	-	50

Semester-III

Paper Code	Nomenclature	Periods/ week	Marks		
			Ext.	Int.	Total
CS-31	Programming in C++	(6 periods / week)	40	10	50
CS-32	Data Structure	(6 periods / week)	40	10	50
CS-33	Computer Lab based on CS-31 and CS-32	(two lab sessions of 3 periods each per week per group)	50	-	50

Semester-IV

Paper Code	Nomenclature	Periods/ week	Marks		
			Ext.	Int.	Total
CS-41	Database Management Systems	(6 periods / week)	40	10	50
CS-42	Software Engineering	(6 periods / week)	40	10	50
CS-43	Computer Lab based on CS-41	(two lab sessions of 3 periods each per week per group)	50	-	50

Semester-V

Paper Code	Nomenclature	Periods/ week	Marks		
			Ext.	Int.	Total
CS-51	Computer Networks	(6 periods / week)	40	10	50
CS-52	Optional paper - I	(6 periods / week)	40	10	50
CS-53	Computer Lab based on CS-51	(two lab sessions of 3 periods each per week per group)	50	-	50

List of Optional papers against CS-52:

CS-52(i)	Python Programming
CS-52(ii)	Java Programming

Semester-VI

Paper Code	Nomenclature	Periods/ week	Marks		
			Ext.	Int.	Total
CS-61	Artificial Intelligence	(6 periods / week)	40	10	50
CS-62	Optional paper - II	(6 periods / week)	40	10	50
CS-63	Computer Lab based on CS-62	(two lab sessions of 3 periods each per week per group)	50	-	50

List of Optional papers against CS-62:

CS-62(i)	Android Programming
CS-62(ii)	Introduction to Linux

Note: The group size for practical purpose will be same as that of other Science Subjects like Physics and Chemistry.

Syllabi for the subject of Computer Science
in B.Sc. (Non Medical with Computer Science) w.e.f. 2021-22

CS-11 COMPUTER FUNDAMENTALS

Maximum Marks: 50 **External: 40**
Time: 3 hours **Internal: 10**

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of eight (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks (i.e. 8 marks)

Course Objective: The objective of the course is to give basic competencies for application of a computer to everyday tasks using standard packages.

Learning Outcomes: At the end of the course a student is expected to describe

1. the organization and operation of a computer processor, primary and secondary memory, peripheral devices and to give computer specifications;
2. explain the representation of data and information in computer systems, use standard word, and spreadsheets, graphics generation packages,
3. use standard database system

UNIT-I

Introduction to Information Technology, concept of bit and byte, binary, octal, decimal and hexa-decimal number systems and their conversion, data representation, complement form, BCD codes, fixed point and floating point representation

UNIT-II

Computer and its components, mini computer, micro computer, personal computer, super computer, note book/ laptop, networking of computers, Local Area Network, Metropolitan Area Network, Wide Area Network, network topologies: Bus, Ring, Star, Mesh and Hybrid, Internet and Intranet, modem.

UNIT-III

Memory Organization: Memory hierarchy, RAM, ROM, dynamic RAM, flash memory, secondary memory and its characteristics, hard disk drives, cache memory and its organization, floppy drive and CD/ DVD drive.

UNIT-IV

Peripheral devices: common input and output devices, printer, plotter, scanner, joy stick, web camera, touch panel, light pen and card reader.

Text Books:

1. P.K. Sinha, Computer Fundamental, BPB Publication.

CS-12 DIGITAL ELECTRONICS

Maximum Marks: 50 **External: 40**
Time: 3 hours **Internal: 10**

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of eight (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks (i.e. 8 marks).

Course Objectives: The objectives are to study

1. To acquire the basic knowledge of digital logic levels and application of knowledge to understand digital electronics circuits.
2. To prepare students to perform the analysis and design of various digital electronic circuits.

Learning Outcomes: After studying this course the students

1. To understand and examine the structure of various number systems and its application in digital design.
2. The ability to understand, analyze and design various combinational and sequential circuits.
3. Ability to identify basic requirements for a design application and propose a cost effective solution.

UNIT - I

Information Representation: Number Systems, Binary Arithmetic, Fixed-point and Floating-point representation of numbers, BCD Codes, Error detecting and correcting codes, Character Representation – ASCII, EBCDIC, Unicode

UNIT - II

Binary Logic: Boolean Algebra, Boolean Theorems, Boolean Functions and Truth Tables, Canonical and Standard forms of Boolean functions, Simplification of Boolean Functions – Venn Diagram, Karnaugh Maps.

UNIT - III

Digital Logic: Basic Gates – AND, OR, NOT, Universal Gates – NAND, NOR, Other Gates – XOR, XNOR etc. NAND, NOR, AND-OR-INVERT and OR-AND-INVERT implementations of digital circuits, Combinational Logic – Characteristics, Design Procedures, analysis procedures, Multilevel NAND and NOR circuits.

UNIT - IV

Combinational Circuits: Half-Adder, Full-Adder, Half-Subtractor, Full-Subtractor, Encoders, Decoders, Multiplexers, Demultiplexers, Comparators, Code Converters, BCD to Seven-Segment Decoder.

Recommended Books:

1. M. Morris Mano, Digital Logic and Computer Design, Prentice Hall of India Pvt. Ltd.
2. V. Rajaraman, T. Radhakrishnan, An Introduction to Digital Computer Design, Prentice Hall of India Pvt. Ltd.
3. Andrew S. Tanenbaum, Structured Computer Organization, Prentice Hall of India Pvt. Ltd.
4. Nicholas Carter, Schaum's Outlines Computer Architecture, Tata McGraw-Hill

CS-21 PROGRMMING IN C

Maximum Marks: 50 **External: 40**
Time: 3 hours **Internal: 10**

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of eight (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks (i.e. 8 marks)

Course Objectives: The course is designed to provide complete knowledge of C language. Students will be able to develop logics which will help them to create programs, applications in C.

Learning Outcomes: After the completion of this course,

1. The students will be able to develop applications.
2. By learning the basic programming constructs they can easily switch over to any other language in future.

UNIT-I

Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Compilation and Executing a C program, , Types of errors in programming, Techniques of Problem Solving: Flow-chart, algorithms, pseudo code, Structured programming concepts
History of C, Importance of C, Structure of a C Program, use of main() function, use of library functions and header files, introduction to preprocessor directives, compilation process of a c program, C character set, identifiers and keywords, data types and their memory requirements, constants and variables, scope of a variable, assignment statement, unformatted & formatted I/O

UNIT-II

Arithmetic (Unary & Binary), Relational, Logical, Bitwise, and Conditional operators. Arithmetic expressions, evaluation of arithmetic expressions, understanding operators precedence and associativity in expression evaluation, type casting and conversion, conditional statements, iterative/looping statements, break and continue, goto statement.
Functions: Prototype, Declaration and Definition of a function, Arguments/Parameters in Functions, Functions with variable number of Arguments, Utility of functions, Recursion. Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.

UNIT-III

Arrays: Definition, Creating and Using One Dimensional Arrays, Initializing an Array, Accessing individual elements in an Array, Manipulating array elements using loops, Two dimensional Arrays: memory representation schemes: row major, column major. simple programs. Introduction to Multi-dimensional arrays.
Understanding a Pointer Variable, Simple use of Pointers (Declaring and Dereferencing Pointers to simple variables), Pointer arithmetic. Pointers to Pointers, Problems with Pointers, passing pointers as function arguments, Call by Reference, Pointers and Arrays,. Pointers and strings, malloc, calloc, sizeof functions

UNIT-IV

String, String I/O, Array and strings, reading and writing strings, String manipulation functions: String length, copy, compare, concatenate etc. Understanding utility of structures, declaring, initializing and using simple structures, Manipulating individual members of structures.

SUGGESTED READINGS

1. Yashwant Kanetker, Let us C, BPB

CS-22 OPERATING SYSTEM

Maximum Marks: 50 **External: 40**
Time: 3 hours **Internal: 10**

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of eight (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks (i.e. 8 marks)

Course Objectives: The objectives are to study

1. Describe the important computer system resources and the functions.
2. To study the process management and scheduling.
3. To understand the concepts and implementation Memory management policies and virtual memory.
4. To study the need for special purpose operating system with the advent of new emerging technologies

Learning Outcomes: After studying this course the students

1. Describe the important computer system resources and the functions.
2. To understand the concepts and implementation Memory management policies and virtual memory.

UNIT – I

Introduction, What is an Operating System, Simple Batch Systems, Multiprogrammed Batches systems, Time-Sharing Systems, Personal-computer systems, Parallel systems, Distributed Systems, Real-Time Systems Memory Management: Background, Logical versus Physical Address space, swapping, Contiguous allocation, Paging, Segmentation Virtual Memory: Demand Paging, Page Replacement, Page-replacement Algorithms, Performance of Demand Paging, Allocation of Frames, Thrashing, Other Considerations

UNIT – II

Processes: Process Concept, Process Scheduling, Operation on Processes CPU Scheduling: Basic Concepts, Scheduling Criteria, Scheduling Algorithms, MultipleProcessor Scheduling, Process Synchronization: Background, The Critical-Section Problem, Synchronization Hardware, Semaphores, Classical Problems of Synchronization

UNIT -III

Deadlocks: System Model, Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock Device Management: Techniques for Device Management, Dedicated Devices, Shared Devices, Virtual Devices; Input or Output Devices, Storage Devices, Buffering, Secondary Storage Structure: Disk Structure, Disk Scheduling, Disk Management, Swap-Space Management, Disk Reliability.

UNIT -IV

Information Management: Introduction, A Simple File System, General Model of a File System, Symbolic File System, Basic File System, Access Control Verification, Logical File System, Physical File System File-System Interface: File Concept, Access Methods, Directory Structure, Protection, Consistency Semantics File-System Implementation: File System Structure, Allocation Methods, Free-Space Management

Recommended Books:

1. Silbersachatz and Galvin, “Operating System Concepts”, Pearson, 5th Ed., 2001
2. Madnick E., Donovan J., “Operating Systems”, Tata McGraw Hill, 2001

Syllabi for the subject of Computer Science
in B.Sc. (Non Medical with Computer Science) w.e.f. 2021-22

CS-11 COMPUTER FUNDAMENTALS

Maximum Marks: 50 **External: 40**
Time: 3 hours **Internal: 10**

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of eight (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks (i.e. 8 marks)

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1. the organization and operation of a computer processor, primary and secondary memory, peripheral devices and to give computer specifications;
2. explain the representation of data and information in computer systems, use standard word, and spreadsheets, graphics generation packages,
3. use standard database system

UNIT-I

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UNIT-II

Computer and its components, mini computer, micro computer, personal computer, super computer, note book/ laptop, networking of computers, Local Area Network, Metropolitan Area Network, Wide Area Network, network topologies: Bus, Ring, Star, Mesh and Hybrid, Internet and Intranet, modem.

UNIT-III

Memory Organization: Memory hierarchy, RAM, ROM, dynamic RAM, flash memory, secondary memory and its characteristics, hard disk drives, cache memory and its organization, floppy drive and CD/ DVD drive.

UNIT-IV

Peripheral devices: common input and output devices, printer, plotter, scanner, joy stick, web camera, touch panel, light pen and card reader.

Text Books:

1. P.K. Sinha, Computer Fundamental, BPB Publication.

CS-12 DIGITAL ELECTRONICS

Maximum Marks: 50 **External: 40**
Time: 3 hours **Internal: 10**

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of eight (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks (i.e. 8 marks).

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1. To acquire the basic knowledge of digital logic levels and application of knowledge to understand digital electronics circuits.
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Learning Outcomes: After studying this course the students

1. To understand and examine the structure of various number systems and its application in digital design.
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UNIT - IV

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3. Andrew S. Tanenbaum, Structured Computer Organization, Prentice Hall of India Pvt. Ltd.
4. Nicholas Carter, Schaum's Outlines Computer Architecture, Tata McGraw-Hill

CS-21 PROGRMMING IN C

Maximum Marks: 50 **External: 40**
Time: 3 hours **Internal: 10**

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of eight (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks (i.e. 8 marks)

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Learning Outcomes: After the completion of this course,

1. The students will be able to develop applications.
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Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Compilation and Executing a C program, , Types of errors in programming, Techniques of Problem Solving: Flow-chart, algorithms, pseudo code, Structured programming concepts
History of C, Importance of C, Structure of a C Program, use of main() function, use of library functions and header files, introduction to preprocessor directives, compilation process of a c program, C character set, identifiers and keywords, data types and their memory requirements, constants and variables, scope of a variable, assignment statement, unformatted & formatted I/O

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Arithmetic (Unary & Binary), Relational, Logical, Bitwise, and Conditional operators. Arithmetic expressions, evaluation of arithmetic expressions, understanding operators precedence and associativity in expression evaluation, type casting and conversion, conditional statements, iterative/looping statements, break and continue, goto statement.
Functions: Prototype, Declaration and Definition of a function, Arguments/Parameters in Functions, Functions with variable number of Arguments, Utility of functions, Recursion. Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.

UNIT-III

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UNIT-IV

String, String I/O, Array and strings, reading and writing strings, String manipulation functions: String length, copy, compare, concatenate etc. Understanding utility of structures, declaring, initializing and using simple structures, Manipulating individual members of structures.

SUGGESTED READINGS

1. Yashwant Kanetker, Let us C, BPB

CS-22 OPERATING SYSTEM

Maximum Marks: 50 **External: 40**
Time: 3 hours **Internal: 10**

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of eight (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks (i.e. 8 marks)

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3. To understand the concepts and implementation Memory management policies and virtual memory.
4. To study the need for special purpose operating system with the advent of new emerging technologies

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UNIT – I

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UNIT -III

Deadlocks: System Model, Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock Device Management: Techniques for Device Management, Dedicated Devices, Shared Devices, Virtual Devices; Input or Output Devices, Storage Devices, Buffering, Secondary Storage Structure: Disk Structure, Disk Scheduling, Disk Management, Swap-Space Management, Disk Reliability.

UNIT -IV

Information Management: Introduction, A Simple File System, General Model of a File System, Symbolic File System, Basic File System, Access Control Verification, Logical File System, Physical File System File-System Interface: File Concept, Access Methods, Directory Structure, Protection, Consistency Semantics File-System Implementation: File System Structure, Allocation Methods, Free-Space Management

Recommended Books:

1. Silbersachatz and Galvin, “Operating System Concepts”, Pearson, 5th Ed., 2001
2. Madnick E., Donovan J., “Operating Systems”, Tata McGraw Hill, 2001

W.e.f.-2018-19

Syllabus for Level-1 Course (Certificate Course) of Compulsory computer Education for BA/BSc (Except for BSc Computer Science/BSc I.T./BCA).

Scheme	Compulsory Computer Education	
Course Code	CCEL-1	
Course Title	Basic Computer Course	
No. of Credit	02 (Theory)	01 (Practical)
	50 (Theory)	25 (Practical)
	35 (External) 15 Internal	
Duration of examination	3 Hrs (Theory)	3 Hrs (Practical)
Lecture/Tutorial Workload/week	03 period (2 Lecture +1 tutorial) per Section	
Credits	03	
Practical Workload/week	03 period per group	

Notes:

1. Every student of BA/BSc (except for BSc Computer Science/BSc I.T./BCA) shall be mparted instructions in this compulsory course by the college concerned.
2. The students taking theory instructions in this course shall be evaluated annually through a question paper provided by the University.
3. The students taking practical instructions in this course shall be evaluated annually by an internal examiner (regular teacher/computer instructor) to be appointed by the concerned Principal/Director/Chairperson.
4. Ordinance of Choice Based Credit System (CBCS) of the University shall be applied to this course.
5. A certificate shall be awarded by the university to successful candidates wherein the Letter Grade shall be mentioned. This certificate be treated valid for Govt. Jobs wherever applicable.
6. Paper of Compulsory Computer Education level-1 is compulsory for the students of UG Level as mentioned above.
7. The candidates who failed to qualify this paper in 1st year of the course will have to pass the same in 2nd or 3rd year as re-appear paper. However, level-II(Diploma Course in Computer Education) and level-III (Advanced Computer Diploma course in Computer Education) will be optional.
8. The college will charge Rs. 100/- per candidate per month as lab charges from such candidates.
9. At least 25 computers for a Batch of 25-40 students for lab work will be provided.
10. In order to maintain uniformity, the common question paper will be supplied by the university to the college along with 2nd sem. Examinations.
11. The Date sheet will be notified by the Controller of Examinations along with even semester examinations.

12. Evaluation of theory papers/Answer books will be done by regular teachers/instructors appointed in the respective colleges to be appointed by Principal.
13. After awarding the marks the college will deposit the record in Secrecy Branch of the University.
14. The expenditure/remuneration for theory (Examination and evaluation) and Practical examination will be borne by the respective colleges.
15. The theory/practical will be taught by regular Computer Science Teachers/Computer Instructors.

SYLLABUS OUTLINES:

1. Knowing computer: What is Computer, Basic Applications of Computer: Components of Computer System, Central Processing Unit (CPU), VDU, Keyboard and Mouse, Other input/output Devices, Computer Memory, Concepts of Hardware and Software; Concept of Computing, Data and Information; Applications of IECT; Connecting keyboard, mouse, monitor and printer to CPU and checking power supply.
2. Operating Computer using GUI Based Operating System: What is an Operating System; Basics of Popular Operating Systems; The user Interface, Using Mouse; Using right Button of the Mouse and Moving Icons on the Screen use of Common Icon, Status Bar, Using Menu and Menu-selection, Running an Application, Viewing of File, Folders and Directories, Creating and Renaming of files and folders, Opening and closing of different Windows; Using help; Creating Short cuts, Basics of O.S. Setup; Common utilities.
3. Understanding Word Processing: Word Processing Basics; Opening and Closing of documents; text creation and Manipulation; Formatting of text; Table handling; Spell check, language setting and thesaurus; Printing of word document.
4. Using Spread Sheet: Basics of Spreadsheet; Manipulation of cells; Formulas and Functions; Editing of Spread Sheet, printing of Spread Sheet.
5. Introduction to Internet, WWW and Web Browsers: Basic of Computer networks; Lan, Wan; Concept of Internet; Applications of Internet; connecting to internet; What is ISP; Knowing the Internet; Basics of internet connectivity related troubleshooting, World Wide Web; Web Browsing software, Search Engines; Understanding URL; Domain name; IP Address; Using e-governance website.
6. Communications and Collaboration: Basics of electronic mail; getting an email account; Sending and receiving emails; Accessing sent emails; using Emails; Document collaboration; Instant Messaging; Netiquettes.
7. Making Small Presentation: Basics of presentation software; Creating Presentatin; Preparation and Presentation of slides; Slide Show; Taking printouts of presentation/handouts.

DETAILED SYLLABUS:

1. KNOWING COMPUTER

Introduction, Objectives, What is Computer? Basic Applications of Computer, Components of Computer System, Central Processing Unit, Keyboard, mouse and BVD, Other Input devices, Other Output devices, Comuter Memory, Concept of Hardware and Software, hardware, Software, Application Software, Systems software, Concept of computing, data and information, Applications of IECT, e-governance, Entertainment, Bringing Computer to life, Connecting keyboard, mouse, monitor and printer to CPU, Checking power supply, binary number system, conversions-binary to Octal, decimal, hexadecimal and vice versa.

2 OPERATING COMUTER USING GUI BASED OPERATING SYSTEM

Introduction, Objectives, Basics of Operating System, Characteristics of Operating system, Functions of Operating system, Basics of popular, operating system (LINUX/WINDOWS), The User Interface, Task Bar, Icons, Menu, Running an Application, Operating System Simple Setting, Changing System Date And Time, Changing Display Properties, To Add Or Remove A windows Component, Changing Mouse Properties, Adding and removing Printers, File and Directory Management, Creating and renaming of files and directories, Common utilities.

3 UNDERSTANDING WORD PROCESSING

Introduction, Objectives Word Processing Basics, Opening Word Processing Package, Menu Bar, Using The Help, Using The Icons Below Menu Bar, Opening and closing Documents, Opening Documents, Save and Save as, Page Setup, Print Preview, Printing of Documents, Text Creating and manipulation, Document Creation, Editing text, Text Selection, Cut, Copy and Paste, Spell check, Thesaurus, Formatting the Text, Font and Size selection, Alignment of Text, Paragraph Indenting, Bullets and Numbering, Changing case, table Manipulation, Draw Table, Changing cell width and height, Alignment of Text in cell, Delete/Insertion of row and column, Border and shading.

4 USING SPRAD SHEET

Introduction, Objectives, Elements of Electronic Spread Sheet, Opening of Spread Sheet, Addressing of Cells, Printing of Spread Sheet, Saving Workbooks, Manipulation of Cells, Entering Text, Numbers and Dates, Creating Text, Number and Date Series, Editing Worksheet Data, Inserting and Deleting Rows, Column, Changing Cell Height and Width, Formulas and Function, Using Formulas, Function.

5 INTRODUCTION TO INTERNET, WWW AND WEB BROWSERS

Introduction, Objectives, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN), Internet, Concept of Internet, Applications of Internet, Connecting to the Internet, Troubleshooting, World Wide Web (WWW), Web Browsing Software, Popular Web Browsing Software, Search Engines, Popular

Search Engines/Search for content, Accessing Web Browser, Using Favorites Folder, Downloading Web Pages, Printing Web Pages, Understanding URL, Surfing the web, Using E-governance website.

6 COMMUNICATIONS AND COLLABORATION

Introduction, Objectives Basics of E-mail, What is an Electronic Mail, Email Addressing, Using E-mails, Opening Email account, Mailbox: Inbox and Outbox, Creating and Sending a new E-mail, Replying to an E-mail message, Forwarding an E-mail message, Sorting and Searching emails, Document collaboration, Instant Messaging and Collaboration, Using Instant messaging, Instant messaging providers, Netiquettes.

7. MAKING SMALL PRESENTATIONS

Introduction, Objectives, Basics, Using PowerPoint, Opening A PowerPoint Presentation, Saving A Presentation, Creation of Presentation, Creating a Presentation Using a Template, Creating a Blank Presentation, Entering and Editing Text, Inserting And Deleting Slides in a Presentation, Preparation of Slides, Inserting Word Table or an Excel Worksheet, Adding Clip Art Pictures, Inserting Other Objects Resizing and Scaling an Object, Presentation of Slides, Viewing A Presentation, Choosing a Set Up for Presentation, Printing Slides And handouts, Slide Show, Running a Slide Show, Transition and Slide Timings, Automating a Slide Show.

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
CHAUDHARY DEVI LALUNIVERSITY, SIRSA (HARYANA)
(Established by State Legislature Act 9 of 2003)

No/CSA/2018 ...984...
Dated 21/6/2018

To

The Assistant Registrar (Academic)
Ch. Devi Lal University,
Sirsa.

Sub: Syllabi for Level-I course of Compulsory Computer Education for undergraduate level.

Find enclosed herewith the syllabi for level-I course of Compulsory Computer Education duly recommended and approved by Staff Council, UGBOS (Computer Science and Applications) and Faculty of Physical Sciences.

This is for your information and further necesaation action.

DA: **Syllabi & Minutes of Staff Copuncil, UGBOS and Faculty.**
(1 to 8)

CHAIRPERSON
o/c

Copy to:

1. PS to Vice-Chancellor (for kind information of the Vice-Chancellor), CDLU, Sirsa.

Syllabus for Level -1 Course (Certificate Course) of Compulsory Computer Education for BA/BSc (except for BSc Computer Science/BSc I.T./BCA).

Scheme	Compulsory Computer Education		
Course Code	CCEL-1		
Course Title	Basic Computer Course		
No. of Credit	02 (Theory)		01 (Practical)
Max. Marks	50 (Theory)		25 (Practical)
	35 (External)	15 (Internal)	
Duration of examination	3 Hrs (Theory)		3 Hrs (Practical)
Lecture/Tutorial workload/week	03 period (2 Lecture+1 Tutorial) per section		
Practical workload/week	03 period per group		

Notes:

1. Every student of BA/BSc (except for BSc Computer Science/BSc I.T./BCA) shall be imparted instructions in this compulsory course by the College concerned.
2. The students taking theory instructions in this course shall be evaluated annually through a question paper provided by the University.
3. The students taking practical instructions in this course shall be evaluated annually by an internal examiner (regular teacher/computer instructor) to be appointed by the concerned Principal/Director/Chairperson.
4. Ordinance of Choice Based Credit System (CBCS) of the University shall be applied to this course.
5. A certificate shall be awarded by the University to successful candidates wherein the Letter Grade shall be mentioned. This certificate be treated valid for Govt. Jobs wherever applicable.
6. Paper of Compulsory Computer Education level-1 is compulsory for the students of UG Level as mentioned above.
7. The candidates who failed to qualify this paper in 1st year of the course will have to pass the same in 2nd or 3rd year as re-appear paper. However, level-II (Diploma Course in Computer Education) and level-III (Advanced Computer Diploma course in Computer Education) will be optional.
8. The college will charge Rs. 100/- per candidate per month as lab charges from such candidates.
9. At least 25 computers for a Batch of 25-40 students for lab work will be provided.
10. In order to maintain uniformity, the common question paper will be supplied by the university to the college along with 2nd sem. examinations.
11. The Datesheet will be notified by the Controller of Examinations alongwith even semester examinations.
12. Evaluation of theory papers/Answer books will be done by regular teachers/instructors appointed in the respective colleges to be appointed by the Principal.
13. After awarding the marks the college will deposit the record in Secrecy Branch of the University.
14. The expenditure/remuneration for theory (Examination and evaluation) and practical examination will be borne by the respective colleges.
15. The theory/practical will be taught by regular Computer Science Teachers/ Computer Instructors.

11.06.18 (Member UGBOS)

11/6/18 (Member UGBOS)

(Member UGBOS & Staff council)

11/6/2018 (Member UGBOS & Staff council)

1-6-18 (Member UGBOS & Staff

SYLLABUS OUTLINES:

1. **Knowing computer:** What is Computer, Basic Applications of Computer; Components of Computer System, Central Processing Unit (CPU), VDU, Keyboard and Mouse, Other input/output Devices, Computer Memory, Concepts of Hardware and Software; Concept of Computing, Data and Information; Applications of IECT; Connecting keyboard, mouse, monitor and printer to CPU and checking power supply.

2. **Operating Computer using GUI Based Operating System:** What is an Operating System; Basics of Popular Operating Systems; The User Interface, Using Mouse; Using right Button of the Mouse and Moving Icons on the screen, Use of Common Icons, Status Bar, Using Menu and Menu-selection, Running an Application, Viewing of File, Folders and Directories, Creating and Renaming of files and folders, Opening and closing of different Windows; Using help; Creating Short cuts, Basics of O.S Setup; Common utilities.

3. **Understanding Word Processing:** Word Processing Basics; Opening and Closing of documents; Text creation and Manipulation; Formatting of text; Table handling; Spell check, language setting and thesaurus; Printing of word document.

4. **Using Spread Sheet:** Basics of Spreadsheet; Manipulation of cells; Formulas and Functions; Editing of Spread Sheet, printing of Spread Sheet.

5. **Introduction to Internet, WWW and Web Browsers:** Basic of Computer networks; LAN, WAN; Concept of Internet; Applications of Internet; connecting to internet; What is ISP; Knowing the Internet; Basics of internet connectivity related troubleshooting, World Wide Web; Web Browsing software, Search Engines; Understanding URL; Domain name; IP Address; Using e-governance website

6. **Communications and collaboration:** Basics of electronic mail; Getting an email account; Sending and receiving emails; Accessing sent emails; Using Emails; Document collaboration; Instant Messaging; Netiquettes.

7. **Making Small Presentation:** Basics of presentation software; Creating Presentation; Preparation and Presentation of Slides; Slide Show; Taking printouts of presentation/handouts.

DETAILED SYLLABUS:

1. KNOWING COMPUTER

Introduction, Objectives, What is Computer? Basic Applications of Computer, Components of Computer System, Central Processing Unit, Keyboard, mouse and VDU, Other Input devices, Other Output devices, Computer Memory, Concept of Hardware and Software, Hardware, Software, Application Software, Systems software, Concept of computing, data and information, Applications of IECT, e-governance, Entertainment, Bringing computer to life, Connecting keyboard, mouse, monitor and printer to CPU, Checking power supply, binary number system, conversions- binary to octal, decimal, hexadecimal and vice versa .

2. OPERATING COMPUTER USING GUI BASED OPERATING SYSTEM

Introduction, Objectives, Basics of Operating System, Characteristics of Operating system, Functions of Operating system, Basics of popular, operating system (LINUX/ WINDOWS), The User Interface, Task Bar, Icons, Menu, Running an Application, Operating System Simple Setting, Changing System Date And Time, Changing Display Properties, To Add Or Remove A Windows Component, Changing Mouse Properties, Adding and removing Printers, File and Directory Management, Creating and renaming of files and directories, Common utilities.

3. UNDERSTANDING WORD PROCESSING

Introduction, Objectives, Word Processing Basics, Opening Word Processing Package, Menu Bar, Using The Help, Using The Icons Below Menu Bar, Opening and closing Documents, Opening Documents, Save and Save as, Page Setup, Print Preview, Printing of Documents, Text Creation and manipulation, Document Creation, Editing Text, Text Selection, Cut, Copy and Paste, Spell check, Thesaurus, Formatting the Text, Font and Size selection, Alignment of Text, Paragraph Indenting, Bullets and Numbering, Changing case, Table Manipulation, Draw Table, Changing cell width and height, Alignment of Text in cell, Delete / Insertion of row and column, Border and shading.

4. USING SPREAD SHEET

Introduction, Objectives, Elements of Electronic Spread Sheet, Opening of Spread Sheet, Addressing of Cells, Printing of Spread Sheet, Saving Workbooks, Manipulation of Cells, Entering Text, Numbers and Dates, Creating Text, Number and Date Series, Editing Worksheet Data, Inserting and Deleting Rows, Column, Changing Cell Height and Width, Formulas and Function, Using Formulas, Function.

5. INTRODUCTION TO INTERNET, WWW AND WEB BROWSERS

Introduction, Objectives, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN), Internet, Concept of Internet, Applications of Internet, Connecting to the Internet, Troubleshooting, World Wide Web (WWW), Web Browsing Software, Popular Web Browsing Software, Search Engines, Popular Search

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Engines / Search for content, Accessing Web Browser, Using Favorites Folder, Downloading Web Pages, Printing Web Pages, Understanding URL, Surfing the web, Using e-governance website.

6. COMMUNICATIONS AND COLLABORATION

Introduction, Objectives, Basics of E-mail, What is an Electronic Mail, Email Addressing, Using E-mails, Opening Email account, Mailbox: Inbox and Outbox, Creating and Sending a new E-mail, Replying to an E-mail message, Forwarding an E-mail message, Sorting and Searching emails, Document collaboration, Instant Messaging and Collaboration, Using Instant messaging, Instant messaging providers, Netiquettes.

7. MAKING SMALL PRESENTATIONS

Introduction, Objectives, Basics, Using PowerPoint, Opening A PowerPoint Presentation, Saving A Presentation, Creation of Presentation, Creating a Presentation Using a Template, Creating a Blank Presentation, Entering and Editing Text, Inserting And Deleting Slides in a Presentation, Preparation of Slides, Inserting Word Table or An Excel Worksheet, Adding Clip Art Pictures, Inserting Other Objects, Resizing and Scaling an Object, Presentation of Slides, Viewing A Presentation, Choosing a Set Up for Presentation, Printing Slides And Handouts, Slide Show, Running a Slide Show, Transition and Slide Timings, Automating a Slide Show.

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COURSE CURRICULUM AND SCHEME OF EXAMINATION FOR UNDERGRADUATE COMPULSORY COURSE IN ENVIRONMENTAL STUDIES

(w.e.f. 2017-18)

Semester	Course	Nomenclature	Max. Marks	Under Choice Based Credit System (CBCS)	Hours / Periods of Teaching per week	Exam Duration
Sem-I or II	Paper-I	Foundation Environmental Studies	100 (20 Internal +80 External)	4 Credits	4 hours/week (6 periods of 45 minutes /Week)	03 Hrs
Sem-III or IV	Paper-II	Environmental Pollution	100 (20 Internal +80 External)	4 Credits	4 hours/week (6 periods of 45 minutes /Week)	03 Hrs
Sem-V or VI	Paper-III	Environmental Conservation and Society	100 (20 Internal +80 External)	4 Credits	4 hours/week (6 periods of 45 minutes /Week)	03 Hrs

Vision

Significance of Environmental Studies is undisputed. Simple focus on development has led to indiscriminate exploitation of natural and human resources, resulting in their depletion, pollution and scarcity compelling us to think of sustainable development. The mankind today is facing a tough ecological question of survival. Hence, the components of the course curriculum in Environmental Studies aims at providing the students essential understanding of the ecological as well as environmental hazards of modernization, urbanization and consumerism.

SEMESTER I or II

Paper – I
FOUNDATION COURSE IN ENVIRONEMNTAL STUDIES
Scheme of Question Paper

Note: The question paper will contain section A,B, and C

Max. Marks: 80

TIME : 03 hr

Section A (16 Marks)

It will consist of one question having eight parts of two marks each. Candidates will be required to attempt all the parts. Answer to any part should not exceed half page.

Section B (40 Marks)

It will consist of eight questions, two from each Unit. Candidates will be required to attempt five questions in all selecting at least one from each Unit. Each question carries eight marks. Answer to any of the question should not exceed three pages.

Section C (24 Marks)

It will consist of four questions, one from each Unit. Candidate will be required to attempt two questions, each question carrying twelve marks. Answer to any question should not exceed four pages.

UNIT I

Definition, Principles and Significance of Environment Studies, General introduction about Abiotic and biotic spheres of the Environment: Atmosphere, Hydrosphere, Lithosphere and Biosphere. Need for Environment awareness, **Sustainable development**: Definition, concept and tenets of sustainability: Ecology, Environment and Society.

UNIT II

Natural Resources I: Energy resources: Non-renewable energy resources: Fossil fuel and their reserves, impacts of their uses. Renewable energy resources: Scope and advantages, solar energy wind energy, hydroelectric energy. Growing energy needs, Non-conventional energy resources.

UNIT III

Natural Resources II: Forest resources: Types of forests in India, Use and over-exploitation, deforestation: causes and Consequences, Afforestation programme, Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems, Rainwater harvesting

UNIT IV

Drug Abuse: Concept of Health: Physical Health, Mental Health, Factors affecting Mental and Physical Health, Management of positive mental health; **Drugs and their effect**s: What are drugs, useful and harmful drugs, stimulant and depressant drugs, use and abuse of drugs, concept of drug de-addiction; **Legal Position on drugs:** Laws related to drugs i.e. NDPS etc., Concept of Narco-terriorism, role and responsibilities of legal service authorities, Awareness Programmers on drugs; Impacts of drugs/Alcohol/Smoking on Longevity

SEMESTER III or IV

Paper – II

ENVIRONMENTAL POLLUTION
Scheme of Question Paper

Max. Marks: 80
TIME: 03 hr

Note: The question paper will contain section A,B, and C

Section A (16 Marks)

It will consist of one question having eight parts of two marks each. Candidates will be required to attempt all the parts. Answer to any part should not exceed half page.

Section B (40 Marks)

It will consist of eight questions, two from each Unit. Candidates will be required to attempt five questions in all selecting at least one from each Unit. Each question carries eight marks. Answer to any of the question should not exceed three pages.

Section C (24 Marks)

It will consist of four questions, one from each Unit. Candidate will be required to attempt two questions, each question carrying twelve marks. Answer to any question should not exceed four pages.

UNIT I

Water pollution: Natural and anthropogenic sources of water pollution and their effects. Marine pollution, Thermal pollution, Eutrophication, Ground water pollution.

UNIT II

Air pollution: Sources, Classification and properties of air pollutants (Particulate matter, Inorganic gaseous pollutants, Organic gaseous pollutants), Smog, Acid rain, Ozone layer depletion, Green house effects, Global warming, Effects of air pollution on Human health

UNIT III

Soil pollution: Soil pollution from the use of agrochemicals (viz. Fertilizers and Pesticides), Heavy metals, Industrial effluents and Detrimental effects of soil pollutant, Remedial measures for soil pollution. Types and sources Solid waste, Electronic waste

UNIT IV

Radioactive and Noise pollution: Definition Sources of radioactive pollution, Radioactivity, effects of radioactive pollution, Sound pressure level, Frequency, noise monitoring and sound level meter, Sources and effects of noise pollution, Effects of noise pollution on human health

SEMESTER V or VI

Paper – III

ENVIRONMENTAL CONSERVATION AND SOCIETY
Scheme of Question Paper

Max. Marks: 80
Time: 03 hr

Note: The question paper will contain section A,B, and C

Section A (16 Marks)

It will consist of one question having eight parts of two marks each. Candidates will be required to attempt all the parts. Answer to any part should not exceed half page.

Section B (40 Marks)

It will consist of eight questions, two from each Unit. Candidates will be required to attempt five questions in all selecting at least one from each Unit. Each question carries eight marks. Answer to any of the question should not exceed three pages.

Section C (24 Marks)

It will consist of four questions, one from each Unit. Candidate will be required to attempt two questions, each question carrying twelve marks. Answer to any question should not exceed four pages.

UNIT I

National protection laws: India's Ancient Traditions for Protection of Environment, Constitutional Provisions for Protection of Environment, Environmental legislation in India, Environmental Protection Act, 1986, National Green Tribunal Act 2010, Green Bench, Child labour Act.

UNIT II

Biodiversity: Basic concepts, importance and conservation needs, IUCN red list categories, National parks, Biosphere reserves, Wildlife sanctuaries, India as a mega-diversity nation. Efforts to conserve biodiversity, government and nongovernment organizations

UNIT III

Natural Disaster Management: Causes, effects and control measures of natural disasters, disaster preparedness – prevention and mitigation preparedness plan, community based planning, NDRF, Role of mass media and society in disaster management, Post disaster recovery measures: Rehabilitation, planning and construction, long term counter disaster planning.

UNIT IV

Society and Environmental: Demography, Population explosion and effects on Environment. Family Welfare Programmes, Role of individual, Self help groups, Role of NGO's Social movements: Chipko, Appiko, Save Silent Valley, Narmada Bachao Andolan, Eco-feminism, Environmental ethics (Ecocentric and Anthropocentric worldview), Governmental Actions: Swacch Bharat Abhiyan, National Mission for Cleaning Ganga (NMCG)