SYLLABUS FOR THE SESSION 2018-2019

CLASS-XII

ENGLISH

The Overall aim of the course :

a) to enable the learners to communicate effectively and appropriately in real life situations.

b) to use english effectively for study purposes across the curriculum.

c) to develop interest in and appreciation of literature.

d) to revise and reinforce structures already learnt.

e) to develop and integrate the use of the four language skills i.e. Listening, Speaking, Reading and writing.

Objectives :

a) to express the ideas in clear and grammatically correct english.

b) write in style appropriate for communicative purposes.

c) Plan, Organise and present ideas Coherently by introducing developing and concluding a topic.

c) to develop sensitivity to literary and creative use of language.

e) to develop familiarity with poetic use of language.

First Term

Reading Skill

1. Reading Comprehension
2. Note Making & Summary

Writing Skill

1. Notice Writing
2. Advertisements.
3. Letters :
   a) Letters to the Editor
   b) Business or official letters
4. Article / debate / speech.
5. Report Writing.

Literary Text

Book Flamingo

Prose

1. The Last Lesson by Alphanso Daude
2. Lost Spring by Anees Jung.
3. Deep water by Willian O Douglas
4. The Rat trap by Selma Lagerlof
1. My Mother at Sixty Six Kamla Das (Poem)
2. An Elementary School Classroom in a slum-Stephen spender. (Poem)
3. Keeping Quiet-Pablo Neruda. (Poem)

Supplementary Reader

Vistas

1. The Tiger King-Kalki
2. The Enemy by Pearl. S. Buck.
3. Should Wizard hit Mommy?-John updike.

Long Reading Text

Novel

The Invisible Man by H.G. Wells.

First Cycle Test

1. Notice Writing/Note Making
2. The Last Lesson
3. My Mother at Sixty Six.

Second Cycle Test

1. Note Making/Letter Writing.
2. Chapter 1-14 of the novel Invisible Man.
3. Lost Spring by Anees Jung.
4. Poem-An Elementary School Classroom in a slum.

Second Term

Reading Skill

1. Reading Comprehension
11. Note-Making and Summary

Writing Skill

1. Designing & Drafting Posters.
2. Writing formal & Informal Invitations and Replies.
3. Letters.
   a. Job Application
   b. Letter to the Principal or School-Authorities.
4. Article/Speech/debate/Report.

Literary Text

Book : Flamingo

Prose

1. Indigo by Louis Fischar
2. Going Places by A R Barton.

Poetry

1. A thing of beauty by Johnkeats.
2. Aunt Jennifers Tiger by Andrienne Rich.

Supplementary Reader

1. On the Face of it by Susan Hill.
2. Evans Tries an O-Level by Collin Dexter.
3. Memories of Childhood by-Zitkala Sa & Ba.

Long Reading Text.

Novel

1. The Invisible Man by H.G. Wells.

Note : Second Term & Pre Board Exam will also include the Syllabus of First Term and Second Term i.e. Full Syllabus.

MATHEMATICS

Objectives :

* Acquire knowledge and understancing particularly by way of motivation and utilisation of basic concepts, terms, principeles, symbols and underlying processes and skills.
* Feel the flow of reascns while proving a result or solving a problem.

* Apply the knowledge and skills acquired to solve problems and whereever possible by more than one method.
* To develop positive ability to think, analyze and articulate logically.
* To develop interest in mathematics as a problem solving tool in various fields for its beautiful structures and patterns etc.
* To develop an interest in students to study mathematics as a discipline and pursue as a carrer option.

I Cycle

1. Matrices
2. Determinants.

II Cycle

1. Relation & functions
2. Inverse Trigonometric Functions.

I Term

1. Continuity & Differentiability.
2. Application of Derivatives.
3. Integrals
4. Application of the Integrals

Note : Chapters evaluated in I & II Cycle will also be included in I Term Examination.

II Term

1. Differential Equations
2. Vectors
3. Three Dimensional Geometry
4. Linear Programming
5. Probability

Pre Board Examination 100 Marks

-Complete Syllabus

1.	Relations & Functions	10
2.	Inverse Trigonometric Functions	
3.	Matrices	13
4.	Determinants	
5.	Calculus	44

6.	Vectors & Three Dimensional Geometry	17
7.	Linear Programming	6
8.	Probability	10
		100

PHYSICS

AIM: The aim of physics in to discover and verify the laws governing the phenomenons occuring in nature this will require open mindedness, curiosity, collection of data, verification, reasoning, judgement and acceptance of conclusion.

Objectives :

- Strengthen the concepts developed at the secundary stage to provide firm foundation for further leaming.
- Develop process skills and experimental observation, decision making and investigatory skills in leamers.
- Promote problem solving abilities and creative thinking in leamers.
- Develop concept competence in the leamers and make them realise and appreciate the interface of physics with other disciplines.

THEORY

One Paper Time 3 hrs.
Marks 70

		No. of Period	Marks
Unit-I	Electrostatics	22	15
Unit-II	Current Electricity	20	
Unit-III	Magnetic Effect of Current and Magnetism	22	16
Unit-IV	Electromagnetic Induction and Alternating Current	20	
Unit-V	Electromagnetic Waves	04	17
Unit-VI	Optics	25	
Unit-VII	Dual Nature of Matter	08	10
Unit-VIII	Atoms and Nuclei	14	

Unit-IX	Electronic Devices	15	}	12
Unit-X	Communication Systems	10		
	Total	**160**		**70**

Cycle Test I

Ch 1 Electric Charges and Fields
Ch 2 Electrostatic Potential and Capacitance (Excluding Capacitance)

Cycle-2
Term-I

Ch.1 Electric Charges and Fields
Ch.2 Electrostatic Potential and Capacitance
Ch.3 Current Electricity
Ch.4 Moving Charges and Megnetism
Ch.5 Magetism and Matter
Ch.6 Electromagnetic Induction
Ch.7 Alternating current
Ch.8 EM waves
Ch.2, 3 Electrostatic Capacitance and Current Electricity.

Pre-Board 1 : Syllabus of Ist term & Ch.9 (Cycle-2)

Ch.9 Ray Optics
Ch.10 Wave Optics
ch.11 Dual Nature of Radiation and Matter
Ch.12 Atoms
Ch.13 Nuclei
Ch.14 Electronic devices

Pre-Board-2

Ch. 1 to Ch.15 (Full Syllabus)

BIOTECHNOLOGY (045)

Aims & Objective

* To help the learners know and understand basic facts and concepts of the subject at elementary stage.
* To expose the students to different basice provesses and basic techniques used in biotechnology.

* To develop conceptual competence in the learners so as to cope up with professional curses in future career.
* To acquaint students with different applications of Biotechnology in everyday life.
* To develop an interest in students to study biotechnology as a discipline.

S.No.	Topic Protein & Gene Manupulation	Marks
Unit-V	Ch.1 Recombinant DNA technology	15
	Ch.2 Protein Structures and Engineering	15
	Ch.3 Genomics and Bioin formatics	10
Cell Culture & Genetic Manupulation		
Unit-VI	Ch.1 Microbial culture and Applications	10
	Ch.2 Plant cell culture and Applications	10
	Ch.3 Animal cell Culture and Application	10

Ist Cycle

Ch.1 Recombinant DNA Technology

IInd Cycle

Ch.2 Proteomics & Protein Engineering

First Term

Ch. 1+2
Ch.3 Genomics & Bioinformatics

First Pre-board Exam (Complete Syllabus)

Ch. 1+2+3
Ch.4 Microbial Culture Technology
Ch.5 Plant tissue culture technology
Ch.6 Animal Cell Culture

Second Preboard Exam (Complete Syllabu)

Ch. (1+2+3+4+5+6)
Practical

CHEMISTRY

Objectives of Studying Chemistry

1. to promote understanding of basic facts and concepts in chemistry while retaining the excitement of chemistry.
2. To expose the students to various emerging new areas of chemistry and apprise them with their relevance in their future studies and their application in various spheres of chemical science.
3. To equip students to face various challenges related to health, Nutrition environment, weather industries, agriculture.
4. To develop solving skills in students.
5. To acquient students with different aspects of chemistry used in daily life.

Title		Marks
(i)	Solid State	23
(ii)	Solutions	
(iii)	Electrochemistry	
(iv)	Chemical Kinetics	
(v)	Surface Chemistry	
(vi)	General principles and process of isolation of elements	19
(vii)	P-block elements	
(viii)	d-and f-block elements	
(ix)	Coordination compounds	
(x)	Haloalkaness and Hatoarones	28
(xi)	Alcohols, phenols and ethers	
(xii)	Aldehydes, Ketoues and Carboylic acids.	
(xiii)	Organic compounds containing Nitrogen.	
(xiv)	Biomolecules.	
(xv)	Polymers.	
(xvi)	Chemistry in everyday life	
		70

I Cycle

(i) Haloalkanes and Haloarenes.
(ii) Alcohols, Phenol and ethers.

II Cycle

(i) Aldehydes, Ketones and Carboxylic acids
(ii) Alcohols, Phenol & Ethers

I Term

(i) Organic Compounds Containing Nitrogen
(ii) Group 15 and Group 18 of P block elements
(iii) Electrochemistry
(iv) Polymers.
(v) Solutions

Note : I Term exam will include syllabus of I and II Cycle.

II Term

(i) Solid State
(ii) Chemical kinetics
(iii) Surface Chemistry
(iv) General Principles and processes of isolation of elements
(v) Group 16 and Group 17 of P-block elements.
(vi) d & f block elements.
(vii) Coordination compounds.
(viii) Biomolecules
(ix) Chemistry in everyday life.

Pre-board Exam I : Complete Syllabus (including I term and II term)

Pre-board Exam II : Complete Syllabus.

BIOLOGY 044

Aims & Objectives

Studerts studying biology in XII will be able to-

1. become familiar with diversity of biological organisms and their conservation.
2. understand the dynamic state of living bodies and their molecules

3. appreciate the structure and function of genetic material.
4. reflect on the physio chemical basis of living processes
5. realise that biology is the study of struggle for existence and survival of the fittest.

Distribution of Marks-Theory

1.	Reproduction	14
2.	Genetics & Evolution	18
3.	Biology and human welfare	14
4.	Biotechnology and its applications	10
5.	Ecology and environment	14
		70

IST CYCLE-Unit-I Re-production

Ch.1 Reproduction In Organisms
Ch.2 Sexual Reproduction in flowering plants
Ch.3 Human Reproduction
Ch.4 Reproductive Health

IIND CYCLE

Unit-II Genetics and Evolution

Ch.5 Principles of Inheritance and Variation

Ch.6 Molecular Basis of Inheritance
Ch.7 Evolution

IST TERM

Unit-III Biotechnology and its applications

Ch.8 Biotechnology Principles and Process
Ch.9 Biotechnology and it Applications

Unit IV Biology in Human Welfare

Ch.10 Human Health and disease
Chapter 1 to 7 1st Term

FINAL TERM

Ch. 1 to 10

Ch.11 Strategies for enhancement in food production
Ch.12 Microbes in Human Welfare

Unit Ecology

Ch.13 Organisms and Population
Ch.14 Ecosystem
Ch.15 Environmental Issues
Ch.16 Biodiversity and conservation.

Pre-Board

Complete Syllabus CBSE Pattern

ECONOMICS

The Overall aim of the course is

1. Understanding of some basic economic concepts and development of economic reasoning which the learners can apply in their day-to-day life.
2. Equipment with basic tools of economics to analyse economic issue.
3. Sensitising the students to the economic issues being faced by our country today.
4. Development of understanding that there can be more than one view on any economic issue and necessary skills to argue logically with reasoning.

Units Distribution of Marks

Part-A : Introductory Micro Economics

1.	Introduction	4
2.	Consumer Equilibrium and Demand	13
3.	Producer Behaviour and supply	13
4.	Forms of market and Price Determination under Perfect competition with simple application	10
		40

Part-B : Introductory Macro-Economics

5.	National Income & Related Aggregates	10
6.	Money and Banking	6
7.	Determination of Income and Employment	12
8.	Government budget and the Economy	6
9.	Balance of Payments	6
		40

Project work-20 marks

Ist Cycle

Part-A Introductory Micro-Economics
Unit-I Introduction
Unit-II Consumer Equilibrium using cardinal utility approach.
Part-B Micro Economics
Ch.2 Consumer's Equilibrium and demand

Second Cycle

Part-A Statistics
Ch.5 Measures of central tendency
Part-B Micro-Economics
Ch.2 Elasticity of demand
Ch.3 Producer's behaviour and supply
Ch.4 Concept of cost
Ch.5 Concept of Revenue
Ch.6 Producer's Equilibrium
Unit-II a) Consumer equilibrium using ordinal utility approach.
b) Demand & price elasticity of demand.

First Term

Part-A Introductory Micro-Economics
Unit-I Introduction
Unit-II Consumer Equilibrium and Demand
Unit-III Producer Behaviour and Supply
Unit-IV Forms of market and Price-determination under Perfect competition with simple application.
Part-B Introductory Macro Economics
Unit-5 National Income and Related Aggregates.

Pre-Board I

Part-A Introductory Micro-Economics-All Units
Part-B Introductory Macro-Economics-All Units

Pre-Board-II

Part-A Introductory Micro-Economics-All Unit
Part-B Introductory Macro Economics-All Units

ACCOUNTANCY

Aim & Objectives :

1. To familiarise the students with accounting as an information system.
2. To acquaint the students with basic concepts of accounting standards.
3. To develop the skills of using accounting equation in processing business transactions.
4. To develop an understanding about recording of business transactions and preparation of financial statements.
5. To enable the students to understand and analyse the financial statements.

Units

Part-A: Accounting for Partnership Firms &

1.	Accounting for Partnership Firms fundamentals.	35
2.	Accounting for Partnership Firms Reconstitution and Dissolution	
3.	Accounting for share Capital	15
4.	Accounting for Debentures	
	Accounting for Profit organisation	10
		60

Part-B

5.	Analysis of financial Statements	12
6.	Cash Flow statement	8
7.	Project Work.	20
		40

First Cycle

Part-A Accounting for Not for Profit organisations
Ch.1 Accounting for Partnership Firms: Fundamentals

Second Cycle

Part-A
Ch.2 Goodwill Nature & Valuation
Ch.3 Change in Profit Sharing Ratio among the Existing Partners.

Ch.4	Admission of a Partner.	25
First Term		80
	Syllabus of I & II Cycle Test and	
Ch.5	Retirement/Death of a Partner	
Ch.6	Dissolution of a Partnership firms.	
Part-B		
Ch.7	Company Accounts Accounting for share capital.	80
Pre-Board-I		
Syllabus of 1 Term +		80
Part-A		
Ch.8	Company Accounts-Accounting for Debenture	
Ch.9	Company Accounts-Redemption of Debentures.	
Part-B		
Ch. 1	Financial Statement	
Ch.2	Financial Statement Analysis	
Ch.3	Tools for Financial Analysis	
Ch.4	Accounting Ratios.	
Ch.5	Cash Flow Statement	
Pre-board-II : Full syllabus.		80

BUSINESS STUDIES

Aim & Objectives :

1. To develop students with an uncerstanding of the processes of business and its environment.
2. To acquaint students with the dynamic nature and inter dependent aspects of business.
3. To develop an interest in the theory and practice of business, trade and industry.
4. To familiarize students with theoretical foundations of the process of organising and managing the operations of a business frim.
5. To help students appreciate the economic and social significance of business activity and the social cost and benefits arising therefrom.
6. To acquaint students with the practice of managing the operations and resources of business.
7. To enable stucents to act more effectively and responsibly as consumers, employers, employees and citizens.
8. To develop a business attitude and skills in students.

		Merk
Part-A	**Principles and Functions of Management**	
1.	Introduction to Management	
2	Principles of Management	16
3.	Business Environment	
4.	Planning	14
5.	Organising	
6.	Staffing	20
7.	Directing	
8.	Controlling	
		50
Part-B	**Business Finance and Marketing**	
9.	Financial Management	15
10.	Financial Markets	
11.	Marketing Management	15
12.	Consumer Protection	
Part-C	**Project Work**	20
		50

First Cycle : Part-B : Business Finance and Marketing		
Ch.9	Financial Management	25
Second Cycle :		25
Ch.10	Financial Market	
Ch.12	Consumer protection.	
First Term : Part-B : Business Finance and Marketing		80
Ch.9	Financial Management	
Ch.10	Financial Markets	
Ch.11	Marketing Management	

Ch.12 Consumer Protection.

Part-A : Principles and Function of Management 80

Ch.1 Natura and Significance of Management.
Ch.2 Principles of management
Ch.3 Business Environment
Ch.4 Planning

Preboard 1

Part B : Business Finance and marketing
Ch. 9 to Ch. 12

Par: A : Principles and Function of management
Ch. 1 to Ch. 8

Preboard-II : Full Syllabus

हिन्दी ऐच्छिक

हिंदी शिक्षण के उद्देश्य

- साहित्य की सराहना, आनंद, सृजनात्मक एवं आलोचनात्मक दृष्टि का विकास
- साहित्य के विविध विधाओं से परिचय कराना।
- विविध विधाओं के महत्वपूर्ण रचनाकारों का परिचय कराना।
- भाषा की बारीकियों की समझ तथा व्यावहारिक प्रयोग को सीखना।
- भाषा के रूप में हिंदी की विशिष्टता तथा प्रकृति को समझना।
- समाज, जाति, धर्म तथा लिंग आदि के अंतरों के प्रति सकारात्मक समझ पैदा करना।
- तर्क-वितर्क के साथ अभिव्यक्ति कौशल को परिमार्जित करना।
- प्रतियोगिता के दौर में तनावमुक्त रहकर जीवन सापेक्ष कार्यों को समझते हुए आर्थिक सबलता की ओर बढ़ने तथा नियंत्रित रहने की शक्ति विन्सित करना।
- अध्यापन की प्रविधियों को युक्तियों के साथ प्रयोग करते हुए विद्यार्थियों का सर्वांगीण विकास करना।

अंक विभाजन

अधिकतम अंक 100

भाग		अंक
क.	अपठित बोध	
	1. गद्यांश	15
	2. काव्यांश	05
ख.	रचनात्मक तथा व्यावहारिक लेखन (अभिव्यक्ति और माध्यम)	25
ग.	निर्धारित पुस्तकें	
	अंतरा भाग-2	
	क. काव्य भाग	20
	ख. गद्य भाग	20
घ.	अन्तराल (भाग-2)	15

हिंदी 'ऐच्छिक'

प्रथम चक्रीय 25

काव्य खंड

1. जयशंकर प्रसाद क. कार्नेलिया का गीत
ख. देवसेना का गीत

गद्यखंड

1. रामचन्द्र शुक्ल प्रेमघन की स्मृति छाया

रचनात्मक लेखन

पत्र लेखन

द्वितीय चक्रीय परीक्षा 25

काव्य खंड

1. तुलसीदास
2. मलिक मोहम्मद जायसी
3. सूर्यकांत त्रिपाठी 'निराला'

गद्यखंड

1. पंडित चंद्रधर शर्मा 'गुलेरी'-सुमिरिनी के मनके

2. ब्रजमोहन व्यास-कच्चा चिट्ठा

रचनात्मक लेखन

निबंध

प्रथम सत्रीय परीक्षा 100

गद्य खंड (अंतरा)

1. रामचंद्र शुक्ल
2. पंडित चन्द्रधर शर्मा 'गुलेरी'
3. ब्रजमोहन व्यास
4. फणीश्वरनाथ रेणु

काव्य खंड (अंतरा)

1. जय शंकर प्रसाद
2. सूर्यकांत त्रिपाठी 'निराला'
3. तुलसीदास
4. मलिक मोहम्मद जायसी

अंतराल

-सूरदास की झोपड़ी

-आरोहण

अभिव्यक्ति और माध्यम

-विभिन्न माध्यमों के लिए लेखन

-पत्रकारीय लेखन के विभिन्न रूप

रचनात्मक लेखन

-पत्र

-निबंध

-आलेख

द्वितीय सत्रीय परीक्षा 100

काव्य खंड (अंतरा)

1. सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय'
2. केदार नाथ सिंह

3. विष्णु खरे
4. विद्यापति

गद्य खंड (अंतरा)

1. भीष्म साहनी
2. असगर वजाहत
3. निर्मल वर्मा
4. रामविलास शर्मा

अंतराल से

1. बिस्कोहर की माटी

अभिव्यक्ति और माध्यम

-विभिन्न माध्यमों के लिए लेखन

-विशेष लेखन-स्वरूप और प्रकार

-स्ववृत्त लेखन, कार्यवृत्त, कार्यसूची लेखन

रचनात्मक लेखन

-पत्र

-निबंध

-आलेख

-फीचर

प्री-बोर्ड परीक्षा 100

काव्य खंड (अंतरा)

1. जय शंकर प्रसाद
2. सूर्यकांत त्रिपाठी 'निराला'
3. सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय'
4. केदारनाथ सिंह
5. विष्णु खरे
6. रघुवीर सहाय
7. तुलसीदास
8. जायसी
9. विद्यापति

10. केशवदास
11. घनानंद

गद्यखंड (अंतरा)

1. रामचंद्र शुक्ल
2. पंडित चन्द्रधर शर्मा 'गुलेरी'
3. ब्रजमोहन व्यास
4. फणीश्वरनाथ रेणु
5. भीष्म साहनी
6. असगर वजाहत
7. निर्मल वर्मा
8. रामविलास शर्मा
9. ममता कालिया
10. हजारी प्रसाद द्विवेदी

अंतराल :

1. सूरदास की झोपड़ी
2. आरोहण
3. बिस्कोहर की माटी
4. अपना मालवा-खाऊ-उजाड़ू सभ्यता में

रचनात्मक लेखन

-पत्र लेखन
-निबंध लेखन
-आलेख
-फीचर

FASHION STUDIES

Objectives

* To learn appropriate fashion terminology.
* To make students aware of fashion business, basic elements of design.
* To increase & build sensitivity to the forms around

them.
* Learning the process & skills of creation and creativity.

Unit-I	**History of Fashion**	**15 marks**
Unit-II	**Basic Pattern Development**	**20 marks (Th.)**
		15 marks (Prac.)
Unit-III	**Elements of Fashion**	**15 marks**
Unit-IV	**Basics of Garment Making**	**20 marks (Th.)**
		15 marks (Prac.)

I Cycle : April-May

Unit-I History of Fashion
(till Industrial Reolution)

II Cycle : July-August

Unit-I History of Fashion
-World War I and II
-Influence of world wars on fashion
-Evolution of 20th Century Indian Fashion
-Films and Fashion
Unit-III Elements of Fashion
-Chapter 1 & 2

I Term : September

Unit-I History of Fashion
Unit-II : Basic Pattern Development
Unit-III Elements of Fashion

Pre-Board I

Unit-I History of Fashion
Unit-II Basic Pattern Development
Unit-III Elements of Fashion
Unit-IV Basics of Garment Making

Pre-Board II

(Full Syllabus)
Unit-I History of Fashion
Unit-II Basic Pattern Development

Unit-III Elements of Fashion
Unit-IV Basics of Garment Making

PHYSICAL EDUCATION

Aims And Objectives

Education is incomplete without Physical Education.

1. To meet the challenges of life in this competative world.
2. Knowledge of different sports, rules of games and to form a strong team.
3. Team work, Dealing with stress.
4. Motivation and Leacership Qualities..
5. An Awareness regarding norms of safety.
6. An Evidence of being self discipline.
7. Problem solving, decision making, creative thinking.
8. Self Awareness, Managing feelings
9. All Round Development (Physically, Mentally, Socially and emotionally fit citizens through the medium of physical activities)
10. Sportman Spirit and Punctuality.

Ist Cycle

1. Planning in Sports
2. Sports Nutution

IInd Cycle

1. Sports & Training
2. Sports & Medicine

Ist Term

1. Yoga and Life Style
2. Physical Eduction and sports for differently abled

Note : Chapters evaluated in Ist and IInd Cycle also be included in Ist Term Examination.

IInd Term

1. Children and Sports
2. Women and Sports
3. Test and Measurement in Sports
4. Physiology and Sports
5. Kinesiology Biomechanics and Sports
6. Psychology and Sports.

Pre-Board Exam-I Complete syllabus (including I Term and II Term)

POLITICAL SCIENCE

Text Books :

1. Contemporary world Politics (NCERT)
2. Politics in India since Independence (NCERT)

Objectives :

1. To understand major issues in the present day world.
2. To analyze the reasons & consequences of these issues/events.
3. To examine political developments in India since 1947.
4. To critically evaluate political developments & compare them with present times.

Ist Cycle

1. The Cold War
2. The End of Bipolaity

Ist Term

1. The Cold War
2. The End of Bipolaity
3. Chellenges of Nation Building
4. Era of one Party Dominance
5. Politics of Planned Development
6. India's External Relations
7. U.S. Hegemony in world Politics
8. Alternative centre of Power.

IInd Cycle

1. Challange of Nation building.

2. Era of one Party Dominance.

II Terminal Examination/Pre-Board Exam-I

All the chapters mentioned above and

1. Challenges to & Restoration of the engress system.
2. The crisis of Democratic Order
3. Rise of Popular Movements.
4. Regional Aspirations
5. Recent Developments in India Politics.
6. Contemporery South Asia.
7. International Organizations
8. Security in the contemporary World.
9. Environment & Natural Resources.
10. Globalization.

HISTORY

Aims and Objectives :

* To study in detail some themes of Ancient, Medieval and Modern Indian history.
* To illustrate how different types of sources are analyzed and interpreted by scholars.
* To familiarize with major trends in the political and economic history of India till Independence.
* To analyze travellers accounts to understand the salient features of social history.

Name of the Text Book :

Themes in Indian History : Part-I
Themes in Indian History : Part-II
Themes in Indian History : Part-III

Part-I

Ist Cycle Test

Ch.1 Bricks, Beads and Bones : The Harappan civilization.
Ch.2 Kings, farmers and towns : Early States and economics.

Ist Terminal Exam : Part-I

Ch.1 The Harappan Civilization
Ch.2 Kings farmers and towns.
Ch.3 Kinship, caste and class.
Ch.4 Thinkers beliefs and building.

Part-II

Ch.5 Through the eyes of travellers.
Ch.6 Bhakti and Sufi traditions
Ch.7 An imperial capital-vijayanagara.
Ch.8 Peasants, zamindars and the state.
Ch.9 Kings Chronicles.

IInd Cycle Test

Ch.3 Kinship, Caste and Class : Early societies.
Ch.4 Thinkers, beliefs and buildings.

II Terminal Examination

Part-I
Part-II
Part-III

Ch.10 Colonialism and the Countryside.
Ch.11 Rebels and the Raj
Ch.22 Colonial cities
Ch.13 Mahatma Gandhi and the nationalist movement.
Ch.14 Understanding Partition
Ch.15 Framing the constitution.

ENTREPRENEURSHIP

Chapterwise Weightage		**Marks**
Uni-1	Entrepreneurial Opportunities	
Unit-2	Enterprise Planning	30
Unit-3	Enterprise Marketing	
Unit-4	Enterprise Growth Strategies	20
Unit-5	Business Arithmetic	
Unit-6	Resource Moblization	20

Theory 70
(Project work) Practical 30
100

Objectives

- Acquiring Entrepreneurial Spirit and resource fulness.
- Familiarization with various uses of human resource for earning dignified means of living.
- Understanding the concept and process of entrepreneurship.
- Acquiring entrepreneurial quality, competency and motivation.
- Learning the process and skills of creation and management of entrepreneurial venture.

First Cycle

Unit-1 Entrepreneurial Opportunities
Unit-2 Enterprise Planning
* Forms of Business Organisation

Second Cycle

Unit-2 Enterprise Planning (Continued.)

First Term

Unit-3 Enterprise Marketing
Unit-5 Business Arithmetic
Unit 1 to 3 and 5 (First Term Exam)

Second Term

Unit-4 Enterprise Growth Strategies
Unit-6 Resource Mobilization
* Angel Investors
* Venture Capital funds
Unit 1 to 6 (Second Term Exam)

Pre-Board

Unit-6 Resource Mobilization (Continued...)
Full Syllabus (Unit 1 to 6) Pre-Board Exam

Project Work 30

1. Business Plan
2. Market Survey

COMPUTER SCIENCE (CODE - 83)

Learning Objectives:

- To understand basics of computers.
- To develop logic for Problem Solving.
- To develop problem solving skills and their implementation through C++.
- To understand and implement the concept of Object Oriented Methodology.
- To understand the concept of working with Relational Database.
- To understand the basic concept of Computing Logic.
- To understand the basic concepts of Communication and Networking technologies.

FIRST CYCLE TEST

Boolean Algebra

Role of Logical Operations in Computing.

Binary-valued Quantities, Boolean Variable, Boolean Constant and Boolean Operators: AND, OR, NOT; Truth Tables; Closure Property, Commutative Law, Associative Law, Identity law, Inverse Law, Principle of Duality, Idempotent Law, Distributive Law, Absorption Law, Involution Law, DeMorgan s Law and their applications; Obtaining Sum of Product (SOP) and Product of Sum (POS) form the Truth Table, Reducing Boolean Expression (SOP and POS) to its minimal form, Use of Karnaugh Map for minimization of Boolean expressions (up to 4 variables); Application of Boolean Logic: Digital electronic circuit design using basic Logic Gates (NOT, AND, OR, NAND, NOR) Use of Boolean operators (NOT, AND, OR) in SQL SELECT statements Use of Boolean operators (AND, OR) in search engine queries.

REVIEW: C++ covered in Class - XI,

Implementation of Object Oriented Programming concepts in C++: Definition of a class, Member of a class - Data Members and Member Functions (methods), Using Private and Public visibility modes, default visibility mode (private); Member function definition: Inside class definition and outside class definition using scope resolution operator (::); Declaration of objects as instances

of a class; accessing members from object (s), Objects as function arguments pass by value and pass by reference;

SECOND CYCLE TEST

Object Oriented Programming: Concept of Object Oriented Programming - Data biding, Data encapsulation, Class and Object, Abstract class and Concrete class, Polymorphism (implementation of polymorphism using Function overloading as an example in C++); Inheritance, Advantages of Object Oriented Programming over earlier programming methodologies,

Data File Handling: Need for a data file, Types of data files - Text file and Binary file;

Text File: Basic file operations on text file: Creating/Writing text into file, Reading and Manipulation of text from an already existing text file (accessing sequentially).

Binary File: Creation of file, Writing data into file, Searching for required data from file, Appending data to a file, Insertion of data in sorted file, Deletion of data from file, Modification of data in a file; Implementation of above mentioned data file handling in C++; Components of C++ to be used with file handling: Header file: fstream.h; ifstream, ofstream, classes; Opening a text file in in, out, and app moces; Using cascading operators (>><<) for writing text to the file and reading text from the file; open (), get (), read () put (), write(), getline() and close() functions; Detecting end of file (with or without using eof() function), tellg(), tellp(), seekg(),seekp();

FIRST TERM EXAMINATION

Constructor and Destructor: Constructor: special characteristics, declaration and definition of a constructor, default constructor, overloaded constructors, copy constructor, constructor with default arguments;

Destructor: Special Characteristics, declaration and definition

of destructor;

Inheritance (Extencing Classes): Concept of Inheritances, Base Class, Derived classes, protected visibility mode; Single level inheritance, Multilevel inheritance and Multiple inheritance, Privately derived, publicly derived and Protectedly derived class, accessibility of members from objects and within derived class (es);

Pointers:

Introduction to Pointer, Declaration and Initialization of Pointer; Dynamic memory allocation/de-allocation operators: new, delete; Pointers and Arrays: Array of Pointers, Pointer to an array (1dimensional array), Function returning a pointer, Reference variables and use of alias; Function call by reference. Pointer to structure: De-reference/Deference operator: *, ->; self referential structure;

Syllabus covered upto first cycle and second cycle test

PRE BOARD EXAMINATION

Data Structures

Introduction to data structure- array, stack queues primitive and non-primitive data structure,
linear and non-linear structure, static and dynamic data structure.

Arrays:

One and two Dimensional arrays: Sequential allocation and address calculation;

One dimensional array: Traversal, Searching (Linear, Binary Search), Insertion of an element in an array, deletion of an element from an array, Sorting (Insertion, Selection, Bubble)

Two-dimensional arrays: Traversal Finding sum/difference of two NxM arrays containing numeric values, Interchanging Row and Column elements in a two dimensional array;

Stack (Array and Linked implementation of Stack):

Introduction to stack (LIFO_Last In First out Operations)

Operations on stack (PUSH and POP) and its implementation in C++, Converting expressions from INFIX to POSTFIX notation and evaluation of Postfix expression;

Queue: (Array and Linked Implementation)

Introduction to Queue (FIFO - First in First out operations)

Operations on Queue (Insert and Delete and its implementation in C++, circular queue using array.

Databases and SQL

Data base Concepts: Introduction to data base concepts and its need.

Relational data model: Concept of domain, tuple, relation, key, primary key, alternate key,

candidate key.

Relational algebra : Selection, Projection, Union and Cartesian product;

Structured Query Language:

General Concepts: Advantages of using SQL, Data Definition Language and Data Manipulation

Language;

Data Types: NUMBER/DECIMAL, CHARACTER/VARCHAR/VARCHAR2, DATE;

SQL COMMANDS: CREATE TABLE, DROP TABLE, ALTER TABLE, UPDATE ....SET...., INSERT, DELETE; SELECT, DISTINCT, FROM, WHERE, IN, BETWEEN, GROUP BY, HAVING, ORDER BY;

SQL functions: SUM ( ), AVG ( ), COUNT ( ), MAX ( ) AND MIN ( );

Obtaining results (SELECT query) from 2 tables using equi-join, Cartesian product and Union

Note: Implementation of the above mentioned commands could be done on any SQL supported software on one or two tables.

Communication Technologies

Evolution of Networking: ARPANET, Internet, Interspace Different ways of sending data across

the network with reference to switching techniques (Circuit and Packet switching).

Data Communication terminologies: Concept of Channel, Bandwidth (Hz, KHz, MHz) and Data

transfer rate (bps, Kbps, Mbps, Gbps, Tbps).

Transmission media: Twisted pair cable, coaxial cable, optical fiber, i

Network Protocol: TCP/IP, File Transfer Protocol (FTP), PPP, SMTP, POP3 Remote Login (Talent),

and Internet Wireless/Mobile Communication protocol such as GSM, CDMA, GPRS, and WLL.

Mobile Telecommunication Technologies : 1G, 2G, 3G and 4G

Electronic mail protocols such as SMTP, POP3

Protocols for Chat and Video Conferencing VOIP

Wireless technologies such as Wi-Fi and WiMax

Network Security Concepts:

Threats and prevention from Viruses, Worms, Trojan horse, Spams

Use of Cookies, Protection using Firewall. India IT Act, Cyber Law, Cyber Crimes, IPR issues, hacking.

Introduction To Web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup

Language (XML); Hyper Text Transfer Protocol (HTTP); Domain Names; URL; Website, Web

browser, Web Servers; Web Hosting, Web Scripting - Client side (VB Script, Java Script, PHP) and

Server side (ASP, JSP, PHP), Web 2.0 (for social networking)

E-Commerce Project transecting using online banking, mobile banking and payment apps. and services.

PSYCHOLOGY

Objectives :

- To make students more empathic & understanding.
- To help students view life & things around with a clean lense.
- To help students learn the theoretical and the practical aspect of Human Psychology.
- Skills to adapt coping strategies & handlig negativity.

Unit-I April-May (First Cycle)

I. Psychological Disorders (10mm)
II. Theraperitic Approaches (7mm)
III. 2 practicals.

Unit II : July - August (9mm)

I. Variations in Psychdogical Attributs.
II. Self and Personality. (10mm)
III. Attitude & Social Cognition (8mm)
IV. Case Study (Introduction)
V. 2 Practicals.

Unit-III

I. Social Influence & group processes (7mm)
II. Developing Psychological skills (6mm)
III. 1 Practical
IV. Case Study (Data Collection)

Unit-IV

I. Psychology & Life (6mm)
II. Case study (Conclusion)

Term I
Unit I & Unit II
Pre Board I
Full Syllabus
Pre Board II
Full Syllabus

Physical Education

I Unit
1. Planning in Sports
2. Sports and Nutrition

II Unit
1. Sports Medicine
2. Training in Sports

I Term
1. Yoga and lifestyle

2. Physical Education and sports for differently abled.

II Term
1. Children and sports
2. Women and Sports
3. Test and Measurement in Sports
4. Physiology and sports
5. Kinesiology, Biomechanics and Sports.
6. Bychology and sports.

FOOD PRODUCTION-III

Objective :-
1. To develop employable skill among the students.
ii. Basics of cooking food coupled with Scientific Approach.
iii. Develop knowledge and understanding of Food Commodities. Dish regarding quantity and use.

1st Cycle Test 25
i. Kitchen planning
ii. HACCP
iii. Larder

2nd Cycle Test 22
i. Fish Cookery
ii. Meat Cookery
iii. Appetizers and Salads

1st Terminal Exam 60
i. Kitchen Planning
ii. HACCP
iii. Larder
iv. Fish
v. Meat Cokery
vi. Appetizers and Salads

1st Pre-board 60

i. Sandwich
ii. Bread Making
iii. Pastry Making
iv. Cookies
v. Cutirary

Note : First Term Syllabus will also be included in Pre-Board Exam.

FOOD PRODUCTION - IV

1st Cycle Test

iv. Quantity Food Production
v. Menu Planning

2nd Cycle Test

iv. Indenting
v. Purchasing and storing of food itesm

1st Terminal Exam

i. Quantity Food Production
ii. Menu Planning
iii. Indenting
iv. Purchasing and storing of food items

1st Pre-board 60

i. Food Cost Control
ii. Regional Cuisine

Note : First Term Syllabus will also be included in Pre-Board Exam.