

ENGLISH - I

Book Prescribed : **Total English - XII**

- Morning Star

FIRST TERM

Units 1 to 8

- Unit Test - I :**
1. Grammar Exercises
 2. Report - Writing

SECOND TERM

Units 9 to 15

- Note :**
1. Supplementary exercises in each unit to be solved simultaneously with the paper.
 2. Grammatical theory in each unit to be dealt with.

ENGLISH - II

HALFY YEARLY

Drama : Macbeth

Act III & IV (All Scenes)

Prism : A Collection of I.S.C. Short Stories

1. Atithi / Guest - Rabindranath Tagore
2. The Cookie Lady - Philip K. Dick

Rhapsody : A Collection of I.S.C. Poem

1. Telephone Conversation - Wole Soyinka
2. Tithonus - Alfred, Lord Tennyson

Unit Test - I : Macbeth (Act III - All Scenes)

ANNUAL

Drama : Macbeth (Act : V - All Scenes)

Prism : A Collection of I.S.C. Short Stories

1. There will come soft rains - Ray Bradbury
2. Indigo - Satyajit Ray
3. The Medicine Bag - Virginia Driving Hawk Sneve

Rhapsody : A Collection of I.S.C. Poems

1. Beethoven - Shane Koyczan
2. Small Towns and The River - Mamang Dai
3. Death Be Not Proud - John Donne

Note : Preliminary Examination will include the complete syllabi of Class XII.

HINDI

FIRST TERM

पूर्णांक : 80

निबन्ध 15 अंक
व्याकरण 10 अंक

अपठित गद्यांश 15 अंक
पाठ्य पुस्तकें 40 अंक

1. सारा आकाश : राजेन्द्र यादव
उत्तराब्द्ध : भाग 1-5
2. गद्य संकलन
 - (i) दासी - जयशंकर प्रसाद
 - (ii) क्या निराश हुआ जाए? - हज़ारी प्रसाद द्विवेदी
 - (iii) भक्तिन - महादेवी वर्मा
3. काव्य मंजरी
 - (i) तुलसीदास के पद - तुलसीदास
 - (ii) जाग तुझको दूर जाना है - महादेवी वर्मा
 - (iii) उद्यमी नर - रामधारी सिंह 'दिनकर'
4. व्याकरण मंजूषा : मुहावरे, वाक्य शुद्धि, अपठित एवं निबन्ध
नोट : अर्द्धवार्षिक परीक्षा में कक्षा ग्यारह का सम्पूर्ण पाठ्यक्रम शामिल है।

Unit Test - I

1. दासी
2. तुलसीदास के पद
3. व्याकरण - मुहावरे एवं वाक्य शुद्धि

SECOND TERM

पूर्णांक : 80

निबन्ध 15 अंक अपठित गद्यांश 15 अंक
व्याकरण 10 अंक पाठ्य पुस्तकें 40 अंक

1. सारा आकाश : राजेन्द्र यादव
उत्तराब्द्ध : भाग 6-10
2. गद्य संकलन

1. संस्कृति क्या है? - रामधारी सिंह 'दिनकर'
2. मजबूरी - मन्नू भंडारी
3. काव्य मंजरी
 - (i) बादल को घिरते देखा है - नागार्जुन
 - (ii) अँधेरे का दीपक - हरिवंश राय 'बच्चन'
4. व्याकरण मंजूषा : मुहावरे, वाक्य शुद्धि, अपठित एवं निबन्ध

नोट : प्रथम एवं द्वितीय प्री-बोर्ड में कक्षा ग्यारह तथा बारह के सम्पूर्ण पाठ्यक्रम सम्मिलित है।

MATHEMATICS

Book : **I.S.C. Mathematics Vol. - II (OP Melhotra)**
Ref. Book : **I.S.C. Mathematics Vol.- II (M.L. Agrawal)**

FIRST TERM

SECTION - A (COMPULSORY)

1. Algebra
 - Matrices and Determinants
2. - Relation and Functions
 - Inverse Trigonometric Functions
3. Calculus
 - Continuity
 - Differentiation
 - Maxima & Minima
 - Application of Derivative
4. Probability (Continued)
 - Theoretical Probability Distribution & Bay's Theorem

SECTION - B

5. Vectors, Vectors Continued
6. Three-dimensional Geometry
- Straight line

SECTION - C

7. Application of Calculus (excluding integration)
8. Linear Regression

Unit Test - I

1. Matrices, Relation and Functions
2. Determinants

SECOND TERM**SECTION - A (COMPULSORY)**

1. Calculus
- Indefinite Integrals (Standard form)
- Definite Integrals (Special Integral)
- Differential Equations (Methods of Integration)

SECTION - B

2. Three Dimensional Geometry
- Planes
3. Application of Integrals (Area of Curves)

SECTION - C

4. Linear Programming
5. Application of Calculus (Including integral)

PHYSICS

Book : **Nootan Physics** (Nageen Prakashan)-**Vol. II**

Ref. : **ISC Physics Vol. II** - G.R. Bathla & Sons

FIRST TERM (HALF YEARLY)

1. Electrostatics
2. Current Electricity
3. Magnetic Effects of Current and Magnetism
4. Electromagnetic Waves
5. Ray Optics
6. Dual Nature of Radiation and Matter

Unit Test I

1. Electrostatics
2. Current Electricity

SECOND TERM

1. Electromagnetic Induction and Alternating Currents
2. Atoms and Nuclei
3. Wave optics
4. Electronic Devices

Preliminary Examinations I & II will include the entire syllabus.

CHEMISTRY

Book : Nootan ISC Chemistry Vol.-II Nageen

Ref. Book: ISC Chemistry (K. L. Chugh)

Kalyani Publication

FIRST TERM

PHYSICAL CHEMISTRY

1. Solutions
2. Chemical Kinetics

INORGANIC CHEMISTRY

3. Co-ordination Compounds

ORGANIC CHEMISTRY

4. Halo alkanes and Halo arenes
5. Alcohols, Phenols and Ethers
6. Aldehydes, Ketones and Carboxylic Acids
7. Biomolecules

Unit Test I

1. Solutions
2. Chemical Kinetics
3. Co-ordination Compounds

SECOND TERM

PHYSICAL CHEMISTRY

1. Electrochemistry

INORGANIC CHEMISTRY

2. d - and f - BLOCK Elements

ORGANIC CHEMISTRY

3. Organic Compounds Containing Nitrogen

Notes : 1. Scope of Syllabus to be consulted for details.
2. Preliminary examination will include the entire syllabus.

BIOLOGY

Main Book : Srijan Biology for ISC School

FIRST TERM

1. Reproduction

- (i) Sexual Reproduction in Flowering Plants
- (ii) Human Reproduction
- (iii) Reproductive Health

2. Genetics and Evolution

- (iii) Evolution

3. Biology and Human Welfare

- (i) Human Health and Diseases

5. Ecology and Environment

- (i) Organisms and Populations
- (ii) Ecosystem

Unit Test - I

1. Sexual Reproduction in Flowering Plants
2. Human Reproduction
3. Reproductive Health
4. Principles of Inheritance & Variation

SECOND TERM**2. Genetics and Evolution**

- (i) Principles of Inheritance and Variations
- (ii) Molecular basis of Inheritance

3. Biology and Human Welfare

- (ii) Strategies for enhancement in food production

4. Biotechnology and Its Applications

- (i) Biotechnology- Principles and Processes
- (ii) Biotechnology and its applications

5. Ecology and Environment

- (iii) Biodiversity and its conservation

1. Please consult scope of syllabus (2023) for each topic.
2. Preliminary Examinations will include the entire syllabus.

COMPUTER SCIENCE

*Book : Computer Science with Java Vol. II
by D. Rai & Co. (Sumita Arora)*

FIRST TERM**PAPER - THEORY**

Paper I shall be of 3 hours duration and be divided into two parts.

PART - I (20 MARKS)

This part will consist of compulsory short answer questions, testing knowledge, application and skill relating entire syllabus. (Mixed Question)

PART - II (50 MARKS)

This part will be divided into three sections A, B & C. Candidates are required to answer two questions out of three from section A and two questions out of three in each of the section B and C. Each question in A and B part shall carry 10 marks and Section C each question carry 5 marks.

**PART - II
SECTION - A (20 MARKS)**

1. **Boolean Algebra** : Entire Boolean Algebra
2. **Computer Hardware** : Entire Computer Hardware topics given in the syllabus

SECTION - B (20 MARKS)

4. **Programming in Java** :
Review of Class XI Section B & C

5. **Objects**
6. **Primitive Values, Wrapper classes, types and casting**
7. **Variables & Expressions**
8. **Statements & Scope**
9. **Functions**
10. **Arrays and Strings** : *Structured Date types, Basic Concept of a virtual machine, Compile Time and run time errors.*

SECTION - C (10 MARKS)

11. **Interface & Polymorphism** : *All subtopics*
3. **Implementation of algorithms to solve problems**
12. **Data Structure (Stack, Queue, Deque)**
(linked list, Tree, Binary Tree, Merge Sort, Quick Sort only Algorithm)

Unit Test I

1. Boolean Algebra
2. Computer Hardware
3. Programming

SECOND TERM [PRE BOARD]

13. Complexity and Big-O-notation.

Preliminary Examinations I & II will include the entire syllabus.

ECONOMICS

Book : Economics Vol. - II (Frank Bros.)

FIRST TERM

1. Micro Economic Theory
2. Theory of Income and Employment
3. Money and Banking
4. Balance of Payment and Exchange Rate

Unit Test - I

1. Demand and Law of Demand
2. Consumer's Behaviours - Marginal Utility and on Difference Curve Analysis
3. Elasticity of Demand
4. Supply - Law of Supply and Elasticity of Supply

SECOND TERM

5. National Income
6. Public Finance

Unit Test II

1. Theory of Income and Employment
2. National Income

Note : Preliminary Examinations I & II will include the entire syllabus.

ACCOUNTS

Book : D.K. Goel

(Arya Publication)

FIRST TERM

1. Partnership - Fundamentals
2. Admission of a Partner
3. Retirement of a Partner
4. Death of a Partner
5. Dissolution of Partnership Firm
6. Change in the Ratio (Profit Sharing)
7. Final Accounts of Joint Stock Company
8. Common size Statement (Part - B)
9. Comparative Statement (Part - B)

Unit Test I

1. Fundamentals of Partnership
2. Valuation and Concept of Goodwill

SECOND TERM

10. Company Accounts : Issue of Shares
11. Company Accounts : Issue and Redemption of Debentures
12. Ratio Analysis (Part B)
13. Cash Flow Statement (Part B)
14. Accounting Application of Electronic Spreadsheet (Part C)
15. Database Management System (Part C)

Unit Test II

1. Dissolution of Partnership Firm
2. Issue of Shares

Note :

1. Pattern of ISC will be followed through.
2. Prelims I & II will include the entire syllabus.
3. Students have to opt from Part B or Part C.

COMMERCE

Books : ISC Commerce Vol. II –

S. Chand

FIRST TERM

1. Business Environment
2. Financing
3. Management

Unit Test I

1. Business Environment
2. Financing
 - a) Capital - Fixed and Working Capital
 - b) Sources of Finance

Unit Test II

1. Functions of Management
 - a) Directing
 - b) Controlling
2. Marketing - Concept and Functions of Marketing

SECOND TERM

4. Marketing

Note : Preliminary Examinations I & II will include the entire syllabus.

HISTORY

Book : **ISC HISTORY** - Kalyani Publishers

FIRST TERM**Indian History :**

- 1) Towards Independence and Partition : The Last Phase (1935-1947)
- 2) Establishment and Development of Indian Democracy (1947-1966)
- 3) Challenges to Indian Democracy (1964-1977)

World History :

- 1) World War - II
- 2) De - Colonisation in Asia (China) and Africa (Ghana and Kenya)
- 3) Cold War 1945-1991 : Origin, Course, End and Impact

Unit Test - I

- 1) Towards Independence and Partition : The Last Phase (1935-1947)
- 2) Establishment and Development of Indian Democracy (1947-1966)

SECOND TERM**Indian History :**

- 1) Changing Face of the Indian Democracy (1977-1986)
- 2) India's Foreign Policy
- 3) Movements for Women's Rights

World History :

- 1) Protest Movements (Civil Rights Movements, Anti-Apartheid Movement and Feminist Movement)
- 2) Middle East : Israeli - Palestine Conflict (1916-1993)

Note : Annual Examination will include the complete syllabus.

GEOGRAPHY

Book : **ISC Geography** - Kalyani Publishers

FIRST TERM**UNIT - I :**

- 1) Locational Setting of India
- 2) Geological Evolution and Structure
- 3) Relief
- 4) Drainage
- 5) Climate
- 6) Natural Vegetation

UNIT - II :

- 7) Population
- 8) Migration Trends
- 9) Demographic Attributes
- 10) Rural Settlements
- 11) Urban Settlements

Unit Test - I

- 1) Locational Setting of India
- 2) Geological Evolution and Structure
- 3) Relief

SECOND TERM**UNIT - III :**

- 12) Environmental Management and Land Use Pattern
- 13) Water Resources and Types of irrigation
- 14) Agriculture
- 15) Fisheries
- 16) Minerals and Power Resources

UNIT - IV :

- 17) Transport and Communication
- 18) Industries
- 19) Tourism Industries

UNIT - V :

- 20) Regional Economic Development

POLITICAL SCIENCE

Book : **ISC POLITICAL SCIENCE**

FIRST TERM**SECTION - A****Constitution and Government****1. Forms of Government :**

Totalitarian and Authoritarian States and Liberal Democratic States.

2. Forms of Government :

Unitary and Federal States.

3. Forms of Government :

Parliamentary and Presidential Forms of Governments.

4. Constitution :

Amending Procedures

5. Franchise and Representation, Universal Adult Franchise, Method of Election, Constituency : Political Parties and Systems**6. Organs of Government : The Legislature**

[UT - 1]

SECTION - B

Indian Democracy

9. **Indian Constitution the Preamble and Salient Feature of the** Indian Constitution
10. **Fundamental Rights** : Meaning, Importance and Description
11. **Directive Principles of State Policy** : Meaning, Classification, Implementation and Issue

SECOND TERM

SECTION - A

7. **Organs of Government** :
The Executive
8. **Organs of Government** : The Judiciary

SECTION - B

12. **Local Self-Governments** :
Panchayati Raj, Rural Local Governemnt, Urban Local Bodies.
13. **Democracy in India** :
Perspective of Challenges Faced :
Caste, Communalism, Regionalism and Political Violence

