

ENGLISH - I

Book Prescribed : **Total English - XII** -Morning Star

Units 1 to 15

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

ENGLISH - II

Book : **The Tempest** -William Shakespeare

Act - IV : All the Scenes

Act - V : All the Scenes

Book : **Reverie : A Collection of ISC Poems**
(Evergreen Publication)

- 1) The Darkling Thrush - Thomas Hardy
- 2) Crossing the Bar - Alfred, Lord Tennyson
- 3) Desiderata - Max Ehrmann
- 4) Dover Beach -Mathew Arnold
- 5) We are the Music Makers -

Arthur W.E.O'Shaughnessy

Book : **Echoes : A Collection of ISC Short Stories**
(Evergreen Publications)

- 1) A Gorilla in the Guest Room - Gerald Dussell
- 2) The Story of an Hour - Kate Chopin
- 3) The Singing Lesson - Katherine Mansfield
- 4) The Sound Machine - Roald Dahl
- 5) B. Wordsworth - V.S. Naipaul

Preliminary examinations will include the complete syllabi of Classes XI & XII.

HINDI

1. सारा आकाश - राजेन्द्र यादव
2. गद्य संकलन
 - (1) क्या निराश हुआ जाए? - हज़ारी प्रसाद द्विवेदी
 - (2) भक्तिन - महादेवी वर्मा
 - (4) संस्कृति क्या है? - रामधारी सिंह 'दिनकर'
3. काव्य मंजरी
 - (2) जाग तुझको दूर जाना है - महादेवी वर्मा
 - (3) उद्यमी नर - रामधारी सिंह 'दिनकर'
 - (4) बादल को धिरते देखा है - नागार्जुन

MATHEMATICS

Book : **I.S.C. Mathematics Vol. - II**

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

SECTION - A (COMPULSORY)

1. Algebra
 - Matrices and Determinants
2. - Relation and Functions
 - Inverse Trigonometric Functions
3. Calculus
 - Differentiation
 - L'Hospital's Rule
 - Application of Derivative
 - Indefinite Integrals
 - Definite Integrals
 - Differential Equations
4. Probability

SECTION - B

5. Vectors
6. Three-dimensional Geometry
 - Straight line
7. Three Dimensional Geometry - Planes
8. Application of Integrals

SECTION - C

9. Linear Regression
10. Linear Programming
11. Application of Calculus

Note : 1) Preliminary examinations will include the entire syllabus.

2) Reduced scope of syllabus 2020-21 to be referred for details.

PHYSICS

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

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

1. Electrostatics
2. Magnetic Effects of Current and Magnetism
3. Electromagnetic Waves
4. Ray Optics (Chapter Refraction through plane interface excluded)
5. Dual Nature of Radiation and Matter (X-Rays excluded)
6. Electronic Devices (Transistor & Logic Gates excluded)
7. Current Electricity
8. Electromagnetic Induction and Alternating Currents
9. Atoms and Nuclei
10. Wave optics

Note : 1) Preliminary examinations will include the entire syllabus.

2) Reduced scope of syllabus 2020-21 to be referred for details.

CHEMISTRY

Book : **Nootan ISC Chemistry Vol.-II** Nageen

Ref. Book: **ISC Chemistry (K. L. Chugh)**
Kalyani Publication

1. Solutions
2. Chemical Kinetics
3. Surface Chemistry
4. General Principles and Processes of Isolation of Elements
5. P-Block Elements
6. Co-ordination Compounds
7. Halo alkanes and Halo arenes
8. Alcohols, Phenols and Ethers
9. Aldehydes, Ketones and Carboxylic Acids
10. Biomolecules
11. Polymers
12. Chemistry in Everyday Life.
13. Solid State
14. Electrochemistry
15. d - and f - BLOCK Elements
16. 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 : **ISC Biology** Nootan

Ref. Book : **ISC Biology** Balaji Publication

1. Origin and Evolution of Life

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

2. Genetics and Evolution

- (iii) Evolution

3. Biology and Human Welfare

- (i) Human Health and Diseases

4. Ecology and Environment

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

5. Genetics and Evolution

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

6. Biology and Human Welfare

- (ii) Strategies for enhancement in food production
- (iii) Microbes in Human Welfare

7. Biotechnology and Its Applications

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

8. Ecology and Environment

- (iii) Biodiversity and its conservation
- (iv) Environmental issues

Note : 1) Preliminary Examinations will include the entire syllabus.
2) Reduced scope of syllabus 2020-21 to be referred for details.

COMPUTER SCIENCE

Book : **Computer Science with Java Vol. II**
by D. Rai & Sons

SECTION - A (20 MARKS)

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

SECTION - B (40 MARKS)

1. **Programming in Java** :
(Review of Class XI Section B & C)
2. **Objects**
3. **Primitive Values, Wrapper classes, types and casting**
4. **Variables & Expressions**
5. **Statements & Scope**
6. **Methods**

7. Implementation of Algorithms to Solve Problem

8. Arrays, Strings

9. Recursion

SECTION - C (10 MARKS)

1. Inheritance, Interface, Polymorphism

Data structures

Note : 1) Preliminary examination will include the entire syllabus.
2) Reduced scope of syllabus 2020-21 to be referred for details.

ECONOMICS

Book : **Economics Vol. II** (Frank & Co.)

1. Micro Economic Theory
2. Theory of Income and Employment
3. Money and Banking
4. Balance of Payment and Exchange Rate
5. National Income
6. Public Finance

Note : 1) Preliminary Examination will include the entire syllabus.
2) Reduced scope of syllabus 2020-21 to be referred for details.

ACCOUNTS

Book : T.S. Grewal (Sultan Chand)

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

Note : 1) *Pattern of ISC will be followed through out.*
2) *Prelim will include the entire syllabus.*
3) *Students have to opt from Part B or Part C.*
4) *Reduced scope of syllabus 2020-21 to be referred for details.*

COMMERCE

Books : ISC Commerce Vol. II (S. Chand)

1. Business Environment
2. Financing
3. Management
4. Marketing

Note : 1) *Preliminary examination will include the entire syllabus.*
2) *Candidates are expected to complete 2 projects from any topic covered in reduced syllabus.*
3) *Reduced scope of syllabus 2020-21 to be referred for details.*

MORAL SCIENCE

Book : Heart and Mind

Marina Publication Pvt. Ltd.

- 1) Modern Lifestyle
- 2) Modern Day Slavery
- 3) Respecting Diversity
- 4) Ragging - A Torture
- 5) Alcoholism
- 6) Choosing A Career
- 7) Generation Gap
- 8) Eve - Teasing
- 9) Drug Addiction - A Menace
- 10) AIDS : A Dreadful Disease
- 11) Digital India
- 12) Germs of India
- 13) Global Icons

