

Class - XI

ENGLISH - I

Book Prescribed : **Total English - XI** -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 - I All the Scenes

Act 2 All the Scenes

Act 3 All the Scenes

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

- 1) The Dolphins - Carol Ann Duffy
- 2) The Gift of India - Sarojini Naidu
- 3) John Brown -Bob Dylan
- 4) The Spider and The Fly - Mary Botham Howitt

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

- 1) Salvatore - Somerset Maugham
- 2) Fritz - Satyajit Ray
- 3) Quality - John Galsworthy
- 4) The Chinese Statue - Jeffrey Archer

Note : Annual Examination will include the complete syllabi.

HINDI

1. गद्य संकलन

- (1) पुत्र-प्रेम - प्रेमचन्द
- (2) गौरी - सुभद्रा कुमारी चौहान
- (3) शरणागत - वृंदावन लाल वर्मा
- (4) सती - शिवानी
- (5) आउट साइडर - मालती जोशी

2. काव्य मंजरी

- (1) साखी - कबीर दास
- (2) बाल लीला - सूरदास
- (3) एक फूल की चाह - सियाराम शरण गुप्त
- (4) आ: धरती कितना देती है - सुमित्रानन्दन पंत
- (5) नदी के द्वीप - अज्ञेय

3. सारा आकाश - राजेन्द्र यादव

MATHEMATICS

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

Ref. I.S.C. Mathematics Vol. - I (M. L. Agrawal)

SECTION - A

I. Sets and Functions

1. Sets
2. Relation and Function

II. Trigonometry

1. Trigonometric Functions
2. Compound and Multiple angles

III. Algebra

1. Quadratic Equations
2. Inequalities
3. Permutation and Combinations
4. Principle of Mathematical Induction
5. Binomial Theorem
6. Sequence and Series
7. Complex Numbers

IV. Probability

V. Calculus

1. Limits
2. Differentiation

VI. Coordinate Geometry

1. Basic concepts of points and their coordinates
2. Straight lines
3. Circles

VII. Statistics

1. Measure of Central Tendency
2. Measure of Dispersion

SECTION - B

VI. Conic Section

1. Parabola
2. Ellipse
3. Hyperbola
4. Introduction to Three-Dimensional Geometry
5. Mathematical Reasoning

SECTION - C

- VII.**
1. Statistics
 2. Correlation Analysis
 3. Index Numbers
 4. Moving Averages

Note : *Reduced scope of syllabus 2020-21 to be referred for details.*

PHYSICS

Book : Nootan Physics (Vol. I) - Nageen Prakashan

Ref. Book : ISC Physics Vol. I - G. R. Bathla & Sons

1. Physical World and Measurement
2. Kinematics (Motion in straight line - excluded)
3. Laws of Motion
4. Gravitation

5. Properties of Bulk Matter (Fluid pressure- excluded)
6. Simple Harmonic Motion
7. Work, Energy and Power
8. Motion of System of Particles
9. Heat and Thermodynamics
10. Kinetic Theory of gases
11. Waves (Doppler's effect - excluded)

Note : *Reduced scope of syllabus 2020-21 to be referred for details.*

CHEMISTRY

Book : **Nootan ISC Chemistry - Vol. I** (Nageen)

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

1. Some Basic Concepts of Chemistry
2. Structure of Atoms
3. States of Matter : Gases and Liquids
4. Classification of Elements and Periodicity in Properties
5. Hydrogen
6. S-block Elements
7. Organic Chemistry- Some Basic Principles and Techniques
8. Environmental Chemistry

9. Chemical Bonding and Molecular structure
10. Chemical Thermodynamics
11. Equilibrium
12. Redox Reactions
13. Some P-Block elements
14. Hydrocarbons (Aliphatic and Aromatic)

Note : *Reduced scope of syllabus 2020-21 to be referred for details.*

BIOLOGY

Book : **i) Nootan ISC Biology Vol. I** (Nageen Pub.)

ii) Nootan ISC Biology Lab Manual

(Nageen Pub.)

Reference Book : **ISC Biology**

(Balaji Pub.)

1. Diversity of Living Organisms

- (i) The Living World
- (ii) Biological Classification
- (iii) Plant Kingdom
- (iv) Animal Kingdom

2. Structural Organisation in Animals and Plants

- (i) Anatomy of Flowering Plants
- (ii) Morphology of Flower

3. Plant Physiology

- (i) Transport in Plants
- (ii) Mineral Nutrition
- (iii) Photosynthesis in Higher Plants
- (iv) Respiration in Plants
- (v) Plant Growth and Development

4. Cell Cycle and Cell Division

5. Cell Structure and Function

- i) Cell- The Unit of Life
- ii) Biomolecules

6. Human Physiology

- i) Digestion and Absorption
- ii) Breathing and Exchange of Gases
- iii) Body Fluids and Circulation
- iv) Excretory Products and Their Elimination
- v) Locomotion and Movement
- vi) Chemical Co-Ordination and Integration
- vii) Neural Control and Coordination

7. Structural Organisation in Animals and Plants

- iii) Structural Organisation in Animals

Note : 1) Scope of syllabus 2021 to be consulted for details. (Revised)
2) Annual examination will include the entire syllabus.

COMPUTER SCIENCE

Book : **Computer Science with JAVA**

Dhanpat Rai & Sons. (D. Rai)

SECTION - A

Basic Computer Hardware and Software

1. Numbers
Representation of Number system in different bases, inter conversion between them, Addition and Subtraction
2. Propositional Logic, Hardware, Implementation, Arithmetic Operation

SECTION - B

3. Introduction to object oriented Programming using Java
4. Objects
5. Primitive values, Wrapper classes, Types and Casting
6. Variable, Expression
7. Statement, Scope
8. Method & Constructors
9. Array's, String

SECTION - C

10. Basic Input / Output Data File Handling (Binary)
11. Recursion
12. Implementation of Algorithms to solve problem
13. Trends in Computing and Ethical issues

Note : Reduced scope of syllabus 2020-21 to be referred for details.

COMMERCE

Book : **ISC Commerce Vol. I** - (S. Chand)

- 1) Classification of human activities - Economic and Non-Economic activities.
- 2) Definition and concept of business, classification of business activities.
- 3) Business objectives.
- 4) Introduction to Business Organisations.
- 5) Sole trader : objective, formation; merits and demerits.
- 6) Partnership
- 7) Corporate Organisations
- 8) Public Sector Undertakings
- 9) Co-operative Organisations
- 10) E-business
- 11) Outsourcing
- 12) Smart Cards
- 13) Stock Exchange
- 14) Wholesaler Trade
- 15) Retail Trade
- 16) Foreign Trade
- 17) World Trade Organisations
- 18) Insurance

- Note :**
- 1) Annual exam 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.

PRINCIPLES OF ACCOUNTS

Books : **T. S. Grewal** (Sultan Chand)

- 1) Basic Accounting Concepts
- 2) Principles, Concepts and Assumptions
- 3) Accounting Equations (excluding practicals)
- 4) Books of Journal
- 5) Ledger-Posting / Balancing
- 6) Cash Book & Subsidiary Books
- 7) Trial Balance
- 8) Bank Reconciliation Statement
- 9) Rectification of Errors
- 10) Capital & Revenue Expenditure / Income
- 11) Reserves and Provisions
- 12) Depreciation
- 13) Bills of Exchange
- 14) Final Accounts (with & without adjustments)

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

ECONOMICS

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

- 1) Definition of Economics
- 2) Micro and Macro Economics
- 3) Basic Problems of an Economy
- 4) Types of Economies
- 5) Statistics
- 6) Measures of Central Value.
- 7) Correlation
- 8) Index Numbers
- 9) Some Mathematical Tools in Economics.
- 10) Parameters of Development
- 11) Planning and Economic Development in India (Niti Aayog)
- 12) Structural changes in the Indian Economy after Liberalization.
- 13) Current challenges facing Indian Economy
- 14) Sustainable Development

Note : 1) Annual exam will include the entire syllabus.
2) Candidates are expected to have completed 2 projects from any topic covered in the 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) The Unruly Guests
- 2) Adolescence
- 3) True Happiness
- 4) Smoking Kills
- 5) A Great Problem
- 6) People with Special Needs
- 7) Practising Yoga
- 8) Sex : The Creative Force
- 9) Social Networking Sites
- 10) A Necessary Evil
- 11) Swachh Bharat Abhiyan
- 12) Germs of India
- 13) Global Icons

