

CLASS XII

PHYSICS SYLLABUS 2022 -23

UNIT TEST 1:

• Unit 1: Electrostatics

1. Electric Charges and Fields
2. Gauss' Theorem
3. Electric Potential and Potential Energy

HALF YEARLY:

• Unit 1: Electrostatics

1. Electric Charges and Fields
2. Gauss' Theorem
3. Electric Potential and Potential Energy
4. Capacitors and Dielectrics

• Unit 2: Current Electricity

5. Electric Resistance and Ohm's Law
6. DC Circuits and Measurements

• Unit 3: Magnetic Effects of Current and Magnetism

7. Moving Charges and Magnetism
8. Torque on a Current-Loop: Moving-Coil Galvanometer
9. Magnetic Field and Earth's Magnetism
10. Magnetic Classification of Substances

• Unit 4: Electromagnetic Induction and Alternating Currents

11. Electromagnetic Induction
12. Alternating Current

• Unit 5: Electromagnetic Waves

13. Electromagnetic Waves

• Unit 6: Optics:

14. Spherical Mirrors
15. Refraction of Light at a Plane Interface: Total Internal Reflection: Optical Fibre
16. Refraction of Light at Spherical Surfaces: Lenses
17. Refraction and Dispersion of Light Through a Prism
18. Optical Instruments

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18. Optical Instruments
19. Wave Nature of Light: Huygen's Principle
20. Interference of Light
21. Diffraction of Light
22. Polarisation of Light

• Unit 7: Dual Nature of Radiation and Matter

23. Photoelectric Effect
24. Matter Waves
25. X-Rays

CLASS XII

• Unit 8: Atoms and Nuclei

26. Atom, Origin of Spectra: Bohr's Theory of Hydrogen Atom
27. Nuclear Structure
28. Radioactivity
29. Mass-Energy Equivalence: Nuclear Binding Energy
30. Nuclear Fission and Nuclear Fusion: Sources of Energy

• Unit 9: Electronic Devices

31. Semiconductor Electronics
32. Junction Diodes
33. Junction Transistors
34. Logic Gates

• Unit 10: Communication Systems:

35. Communication Systems

PRELIM 2:

• Unit 1: Electrostatics

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CLASS XII

CHEMISTRY SYLLABUS 2022 -23

UNIT-I

1. SOLUTIONS
2. CO-ORDINATION COMPOUNDS
3. HALOALKANES AND HALOARENES

HALF YEARLY

1. CHEMICAL KINETICS
2. SOLUTIONS
3. SURFACE CHEMISTRY
4. p-BLOCK ELEMENTS
5. d AND f BLOCK ELEMENTS
6. COORDINATION COMPOUNDS
7. HALOALKANES AND HALOARENES
8. ALCOHOLS PHENOLS AND ETHERS
9. ALDEHYDES KETONES AND CARBOXYLIC ACIDS
10. BIOMOLECULES
11. POLYMERS
12. CHEMISTRY IN EVERYDAY LIFE

PRELIM

1. SOLID STATE
2. ELECTROCHEMISTRY
3. GENERAL PRINCIPLES AND PROCESSES OF ISOLATION OF ELEMENTS
4. ORGANIC COMPOUNDS CONTAINING NITROGEN

[UT-I, HALF YEARLY & UT-II SYLLABUS ARE ALSO INCLUDED IN PRELIM-I & II]

BIOLOGY SYLLABUS 2022 -23

Unit test 1:

1. Evolution.
2. Microbes in Human welfare.

HALF YEARLY EXAM:

- 1.** Unit 1:
 - (i) Reproduction in organisms.
 - (ii) Sexual reproduction in flowering plants.
 - (iii) Human reproduction.
 - (iv) Reproductive Health.
- 2.** **Unit 2 (Genetics and Evolution) :**
 - (i) Principles of inheritance and variation.
 - (ii) Molecular basis of inheritance.
 - (iii) Evolution.
- 3.** **Unit 3: (Biology and Human welfare) :**
 - (i) Microbes in human welfare.
 - (ii) Strategies for enhancement in food production.
- 4.** **Unit 4: (Biotechnology and its Applications) :**
 - (i) Biotechnology – principles and processes.
 - (ii) Biotechnology and its applications.
- 5.** **Unit 5: Ecology and Environment:**
 - (i) Biodiversity and its conservation.

PRELIMS:

1. Human health and Diseases.
2. Organisms and populations.
3. Ecosystem.
4. Environmental Issues.

Note:

All the chapters mentioned in the half yearly Exam are also included in PRELIMS I and II (i.e. the entire ISC Biology syllabus of Class XII).

CLASS XII

HISTORY SYLLABUS 2022 -23

UNIT TEST

1. Important political development.
2. Working of provincial autonomy.
3. National Movement during the Second World War

HALF YEARLY

Indian history

1. towards Independence and Partition
2. Establishment and development of Indian democracy.
3. India's Foreign policy
4. Movement for Women's right

World history

1. World War 2
2. De - Colonization
3. Cold War (origin, course)

PRELIMINARY EXAMINATION

Indian history

1. Challenges to Indian democracy.
2. Changing face of the Indian democracy (1977- 1979)

World history

3. Protest Movement
4. Middle East: Israeli - Palestine conflict

*** Including the Half yearly syllabus as per ISC.**

GEOGRAPHY SYLLABUS 2022 -23

UNIT TEST 1

1. Locational setting of India
2. Geological Evolution and Structure
3. Relief

HALF - YEARLY EXAM

1. Locational setting of India
2. Geological Evolution and Structure
3. Relief
4. Drainage
5. Climate
6. Natural Vegetation
7. Population
8. Environmental management and landuse pattern
9. Migration trends
10. Water resources and types of irrigation
11. Agriculture
12. Fisheries
13. Regional Economic Development

PRELIMINARY EXAM

1. Demographic attributes
2. Rural settlements
3. Urban settlements
4. Minerals and power resources
5. Transport and Communication
6. Industries
7. Tourism industry

Including the Half- Yearly syllabus as per ISC.

CLASS XII

COMMERCE SYLLABUS 2022 -23 **BOOK: S.CHAND'S ISC COMMERCE (VOLUME-II)**

UNIT EXAM-I

1. Business Environment
2. Financing: Capital – Fixed and Working.
3. Banking

FIRST TERM

Unit-1 Business Environment.

1. Business Environment

Unit-2 Financing-

2. Capital – Fixed and Working
3. Sources of finance for a Joint Stock Company.
4. Banking- Latest trends

Unit-3 Management-

5. Management meaning, nature and importance.
6. Principles of Management.
7. Functions of Management and Coordination.
8. Planning.
9. Organising.
10. Staffing.
11. Directing.
12. Controlling.

SECOND TERM

Unit-4 Marketing.

13. Marketing- concepts and functions.
14. Marketing mix.
15. Consumer Protection Act 2019.

ACCOUNTING SYLLABUS 2022 -23

**BOOK: ISC CLASS XII T.S GREWAL DOUBLE ENTRY BOOK
KEEPING (SECTION-A) & MANAGEMENT ACCOUNTING
(SECTION-B)**

UNIT EXAM-I

1. Partnership Fundamentals.
2. Common size and Comparative Statements.

FIRST TERM

1. Partnership Fundamentals.
2. Goodwill.
3. Admission of a partner
4. Retirement of a partner
5. Death of a partner
6. Dissolution of partnership business.
7. Final Accounts of a Joint Stock Company

SECOND TERM

8. Issue of shares.
9. Issue of debentures.
10. Redemption of debentures.
11. Common size and Comparative Statements.
12. Ratio analysis.
13. Cash Flow Statement.

NOTE: INCLUDING FIRST TERM SYLLABUS.

CLASS XII

COMPUTER SCIENCE SYLLABUS 2022 -23

UNIT TEST I

1. Boolean Algebra
2. Functions and Methods (Only Programming)

HALF YEARLY

SECTION - A

1. Boolean Algebra
2. Computer hardware

SECTION – B

3. Objects and Classes
4. Java Revision Tour (Exception handling)
5. Primitive values, Types Casting and Expressions
6. Statements, Control Structures and Scope
7. Functions (Methods)
8. Compiling and running java programs
9. Recursion
10. Arrays and String

SECTION –C

11. Java Classes – an OOP Perspective (Interface)
12. Concept of Inheritance
13. Simple Data Structure
14. Implementation of Algorithm to solve problem

Preliminary examination – Entire Syllabus as per ISC.

MATHEMATICS SYLLABUS 2022 -23

HALF-YEARLY

SECTION-A

- Ch1. Relations and functions
- Ch2. Inverse trigonometric functions
- Ch3. Matrices
- Ch4. Determinants
- Ch5. Continuity and differentiability
- Ch6. Indeterminate forms
- Ch7. Applications of derivatives

SECTION-B

- Ch1. Vectors
- Ch2. 3D Geometry (only straight lines)
- Section C
- Ch1. Application of calculus in commerce and economics

ANNUAL

SECTION-A

- Ch8. Integrals
- Ch9. Differential equations
- Ch10. Probability

SECTION-B

- Ch2. 3D Geometry (only planes)
- Ch3. Application of integrals

SECTION-C

- Ch2. Linear regression
- Ch3. Linear programming

UNIT TEST I

- Ch1. Relations and functions
- Ch3. Matrices

CLASS XII

HINDI 2nd LANGUAGE SYLLABUS 2022 -23

प्रथमसत्र---

UNIT TEST- I

1. क्या निराश हुआ जाए?
2. जाग तुझको दूर जाना

BOOK 1. गद्य संकलि—

1. क्या निराश हुआ जाए ?
2. भक्तिन

BOOK 2. काव्य मंजरी---

1. जाग तुझको दूर जाना
2. उद्यमी नर

BOOK 3. सारा आकाश- उत्तरार्ध भाग एक से पाँच तक

BOOK 4. निन्दी व्याकरण मंजूषा—

1. निबंद कहानी लेखन
2. □पनित गद्यांश
3. वाक्यों का शुक्तिकरण
4. मुहावरे से वाक्य बनाना

नोट --

- प्रोजेक्ट कार्य किया जायेगा।
- पाठ से सौबोधित प्रश्नो का □भ्यास कराया जायेगा।
- कक्षा 11 के सभी पाठ इस सत्र में भी सम्मिलित हैं।

नितीर् सत्र---

BOOK 1. गद्य संकलि—

1. संस्कृत क्या ह

BOOK 2. काव्य मंजरी---

1. बादल को घिरते देखा हैं

BOOK 3. सारा आकाश—उत्तरार्ध भाग छि से दस तक।

BOOK 4. निन्दी व्याकरण मंजूषा—

1. निबंद कहानी लेखन
2. □पनित गद्यांश
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नोट —

- प्रोजेक्ट कार्य किया जायेगा।
- पाठ से सौबोधित प्रश्नो का □भ्यास कराया जायेगा।
- कक्षा 11 तथा 12 के प्रथम सत्र के सभी पाठ ISC की परीक्षा में सम्मिलित हैं।

BENGALI 2ND LANGUAGE SYLLABUS

UNIT TEST 1

गद्य: आदाव।	[5]
पद्य: रास्ता कारो एकार नय।	[5]
यदि निर्वासन दाओ।	[5]
व्याकरण: १) एककथाय प्रकाश	[2]
२) छेद ओ यति	[3]

[Total= 20 Marks]

HALF-YEARLY

[Literature: Total marks 40]

(4 questions will be selected from 3 books. Each part contains 3 questions that will be sub divided as 1 + 2 + 2 + 5)

गद्य: आदाव, लछमनेर मा ,एकटि तुलसीगाछेर काहिनि ,ना -
पाहारार परीक्षा ,एकादश श्रेणिर सब।
पद्य: यदि निर्वासन दाओ, रास्ता कारो एकार नय, स्वाधीनता तूमि, नून,
एकादश श्रेणिर सब।

CLASS XII

কোনি: অধ্যায় ১-১৪

[Language: Total marks 40]

ব্যাকরণ : [10]
(বাক্য, বাচ্য ও উক্তি পরিবর্তন, সমার্থক শব্দ, প্রায় সমোচ্চারিত ভিন্নার্থক শব্দ,
এককথায় প্রকাশ, ছেদ- যতি, বাক্য ও বানান সংশোধন, বাগধারা)

রচনা: [15]

বোধ পরীক্ষণ: [15]

[Total= 40 Marks]

PRELIMINARY TEST

* Full syllabus of class XI &XII (Lit+Lang.)

*Marks division same as previous examinations.