

# Class XII SYLLABUS 2024- 2025

## Holy Cross school

### Syllabus for Class XII (SCIENCE and HUMANITIES

Session 2024 – 2025

#### English I

##### Unit Test -1

Functional Grammar

Proposal Writing

##### Half yearly

1. Composition
2. Directed Writing
3. Proposal Writing
4. Grammar
5. Comprehension

##### Preliminary Examination

1. Composition
2. Directed Writing
3. Proposal Writing
4. Grammar
5. Comprehension

#### ENGLISH LITERATURE

Books: Macbeth;

Prism and Rhapsody:

ISC Collection of Short Stories and Poems

##### Unit Test -I

1. Telephone Conversation
2. Atithi
3. Macbeth Act 3 sc i

##### Half yearly Examination

Drama: Macbeth Act 3 & 4

**Prose:**

**1. Atithi**

**2.The Cookie Lady**

**3.There Will Come Soft Rains**

**Poetry:**

**1. Telephone Conversation**

**2. Tithonus**

**3.Beethoven**

**Preliminary Examination**

**Drama:**

**Macbeth : Act 3,4 & 5**

**Short stories:**

**1. Atithi**

**2.The Cookie**

**3.There Will Come Soft Rain**

**4. Indigo**

**5. The Medicine Bag**

**Poems:**

**1. Telephone Conversation**

**2. Tithonus**

**3. Beethoven**

**4. Small Towns and the River**

**5. Death Be not Proud**

**PHYSICS SYLLABUS (2024 - 2025)**

**CLASS XII**

**Book–Nootan ISC Physics Class XII by Kumar.Mittal (Nageen Prakashan)**

**Unit Test 1:**

- **Unit 1: Electrostatics**
  - 1. Electric Charges and Fields**
  - 2. Gauss' Theore**
  - 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
  - Unit 4: Electromagnetic Induction and Alternating Currents
10. Electromagnetic Induction
11. Alternating Current
  - Unit 5: Electromagnetic Waves
12. Electromagnetic Waves
  - Unit 6: Optics:
13. Spherical Mirrors
14. Refraction of Light at a Plane Interface: Total Internal Reflection: Optical Fibre
15. Refraction of Light at Spherical Surfaces: Lenses
16. Refraction and Dispersion of Light Through a Prism
17. Optical Instruments

**Pre-board 1:**

- 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
    - Unit 4: Electromagnetic Induction and Alternating Currents
  10. Electromagnetic Induction
  11. Alternating Current

- Unit 5: Electromagnetic Waves
- 12. Electromagnetic Waves
- Unit 6: Optics
- 13. Spherical Mirrors
- 14. Refraction of Light at a Plane Interface: Total Internal Reflection: Optical Fibre
- 15. Refraction of Light at Spherical Surfaces: Lenses
- 16. Refraction and Dispersion of Light Through a Prism
- 17. Optical Instruments
- 18. Wave Nature of Light: Huygen's Principle
- 19. Interference of Light
- 20. Diffraction of Light
- Unit 7: Dual Nature of Radiation and Matter
- 21. Matter Waves
- Unit 8: Atoms and Nuclei
- 22. Atom, Origin of Spectra: Bohr's Theory of Hydrogen Atom
- 23. Nuclear Structure
- 24. Mass–Energy Equivalence: Nuclear Binding Energy
- 25. Nuclear Fission and Nuclear Fusion: Sources of Energy
- Unit 9: Electronic Devices
- 26. Semiconductor Electronics
- 27. Junction Diodes

**Pre-board 2:**

- 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
- Unit 4: Electromagnetic Induction and Alternating Currents
- 10. Electromagnetic Induction
- 11. Alternating Current
- Unit 5: Electromagnetic Waves

**12. Electromagnetic Waves**

- Unit 6: Optics

**13. Spherical Mirrors**

**14. Refraction of Light at a Plane Interface: Total Internal Reflection: Optical Fibre**

**15. Refraction of Light at Spherical Surfaces: Lenses**

**16. Refraction and Dispersion of Light Through a Prism**

**17. Optical Instruments**

**18. Wave Nature of Light: Huygen's Principle**

**19. Interference of Light**

**20. Diffraction of Light**

- Unit 7: Dual Nature of Radiation and Matter

**21. Matter Waves**

- Unit 8: Atoms and Nuclei

**22. Atom, Origin of Spectra: Bohr's Theory of Hydrogen Atom**

**23. Nuclear Structure**

**24. Mass-Energy Equivalence: Nuclear Binding Energy**

**25. Nuclear Fission and Nuclear Fusion: Sources of Energy**

- Unit 9: Electronic Devices

**26. Semiconductor Electronics**

**27. Junction Diodes**

---

**CHEMISTRY SYLLABUS CLASS-XII (SCIENCE) (2024-2025)**

**BOOK NAME - NOOTAN ISC CHEMISTRY ( CLASS XII )**

**Unit-I**

- 1. CHAPTER 2 : SOLUTIONS**
- 2. CHAPTER 3 : ELECTROCHEMISTRY**
- 3. CHAPTER 4 : CHEMICAL KINETICS**

**Half Yearly**

- 1. CHAPTER 4 : CHEMICAL KINETICS \***
- 2. CHAPTER 2 : SOLUTIONS\***

3. CHAPTER 3 : ELECTROCHEMISTRY \*
4. CHAPTER 10 : HALOALKANES AND HALOARENES
5. CHAPTER 11 : ALCOHOLS ,PHENOLS AND ETHERS
6. CHAPTER 12 : ALDEHYDES, KETONES AND CARBOXYLIC ACIDS
7. CHAPTER 13 : ORGANIC COMPOUNDS CONTAINING NITROGEN
8. CHAPTER 14 :BIOMOLECULES

[\* chapters are included from UT I syllabus]

#### PRELIM

1. CHAPTER 8 : d- and f- BLOCK ELEMENTS
2. CHAPTER 9: COORDINATION COMPOUNDS
3. CHAPTER 13: ORGANIC COMPOUNDS CONTAINING NITROGEN

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

.....

(Biology) :

**BOOK:- ISC SRIJAN BIOLOGY- XII (VEER BALA RASTOGI)**

Unit test 1:

1. Chapter-2:Sexual reproduction in flowering plants.
2. Chapter-3:Human reproduction.

Half yearly exam:

Unit 1: Reproduction:

1. Chapter-2:Sexual reproduction in flowering plants.
2. Chapter-3:Human reproduction.
3. Chapter-4:Reproductive Health.

Unit 2: (Genetics and Evolution) :

1. Chapter-5:Principles of inheritance and variation.
2. Chapter-6:Molecular basis of inheritance.
3. Chapter-7:Evolution.

Unit 3: (Biology and Human welfare) :

1. Chapter-8:Human health and Diseases.
2. Chapter-10:Microbes in human welfare.

Unit 5: Ecology and Environment:

1. Chapter–13:Organisms and Populations.
2. Chapter–15:Biodiversity and its conservation.

Prelims:

Unit IV:

1. Chapter–11:Biotechnology: Principles and Processes.
2. Chapter–12:Biotechnology and its Applications.

Unit V:

1. Chapter–14:Ecosystem.

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).

.....

## DIVIDED SYLLABUS FOR 2021–2022

### SUBJECT : MATHS–CLASS XII

#### I. 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

## II. ANNUAL

### SECTION-A

Ch8. Intergrals

Ch9. Differential equations

Ch10. Probablity

### SECTION-B

Ch2. 3D Geometry (only planes)

Ch3. Application of integrals

### SECTION-C

Ch2. Linear regression

Ch3. Linear programming

## III. UNIT TEST I

Ch1. Relations and functions

Ch3. Matrices

Ch4. Determinants

Note: Preliminary examinations will contain the entire part of syllabus.

## Syllabus 2024-2025 class XII, sub-- B2L

### Unit Test 1

গদ্য: লছমনের মা।	5
পদ্য: রাস্তা কারো একার নয়।	5
কোনি: অধ্যায় ১১ ও ১২	5
ব্যাকরণ: ১) এককথায় প্রকাশ	2
২) ছেদ ও যতি	3

---

Total 40

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)

গদ্য: লছমনের মা, একটি তুলসীগাছের কাহিনি, না- পাহারার পরীক্ষা, একাদশ শ্রেণির সব।

পদ্য: রাস্তা কারো একার নয়, স্বাধীনতা তুমি, নুন, একাদশ শ্রেণির সব।

কোনি: অধ্যায় ১-১৪

Language: Total marks 40

-----

ব্যাকরণ: 10

( বাক্য, বাচ্য ও উক্তি পরিবর্তন, সমার্থক শব্দ, প্রায় সমোচ্চারিত ভিন্নার্থক শব্দ, এককথায় প্রকাশ, ছেদ- মতি, বাক্য ও বানান সংশোধন, বাগধারা)

রচনা: 15

বোধ পরীক্ষণ: 15

-----

Total 40

-----

Preliminary test

-----

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

\*Marks division same as previous examinations.

## Subject-History

### Unit test- 1

- 1 Important political development .
- 2.Working of provincial autonomy.
- 3.National Movement during the second world War

### Half yearly

### Indiana history

- 1.Towards Independence and Partition

2 . Establishment and development of Indian democracy.

5. India's Foreign policy

6.Movement for Women 's right

## World history

7.World War 2

8.De – Colonization

9.Cold War (origin,course)

## Preliminary Examination

Indian history

3. Challenges to Indian democracy.

4.Changing face of the Indian democracy (1977- 1979)

## World history

10.Protest Movement

11.Middle East: Israeli – Palestine conflict

- Including the Half yearly syllabus as per ISC

## Political science

### Unit Test 1

Chapters

- 1) Forms of Government: Totalitarian and Authoritarian state
- 2) Forms of Government: Unitary & federal state.
- 3) Forms of Government – Parliamentary & Presidential State.

Half – Yearly – (Including 1<sup>st</sup> Unit Test portion)

Chp 4 – Constitution

Chp 5 – Franchise & Representation

Chp 6. Organs of Government – Legislature

**Chp 9 – Indian Constitution – The Preamble.**

**Chp 10- Fundamentals Rights.**

**Chp 11- Directive Principles of State Policy.**

**Pre-board**

**Full book (All the chapters mentioned in textbook) .**

## **SOCIOLOGY CLASS XII 2024-2025**

### **UNIT TEST I**

- 1. Chapter 1. Social Institutions**
- 2. Chapter 2. Religion and Society**

### **HALF YEARLY**

- 1. Chapter 3. Political Organization**
- 2. Chapter 4. Economic Organization**

**Unit test I portion included**

### **PRE BOARD I**

**Full book**

### **PRE BOARD II**

**Entire syllabus as per ISC (Full Book)**

**Reference – ISC class 12 SOCIOLOGY book by Manjir Ghosh (Kalyani Publishers)**