

HOLY CROSS SCHOOL, MONDALAI

SYLLABUS (2023-2024)

CLASS – XII

ENGLISH – I

Book : Total English – XII

UNIT TEST – I

Functional Grammar + Proposal / Report Writing

HALF YEALY EXAMINATION

Practice paper 1 to 8

Preliminary examination

Practice paper 9 to 15

ENGLISH – II

Book : - The Tempest; Echoes A Collection of ISC Short Stories

Reverie : A Collection of ISC Poems

UNIT TEST – I

1. The Story of an Hour (Short Story)
2. The Dolphins (Poetry)
3. The Tempest (Act 3, Scene 1, Drama)

HALF YEARLY EXAMINATION

Short Stories

1. Fritz
2. The Story of an Hour
3. The Singing Lesson

Poetry Section

1. The Dolphins
2. The Darkling Thrush
3. John Brown

Drama Section

The Tempest : Act 3 & 4

PRELIMINARY EXAMINATION

Short Stories

1. Fritz
2. Quality
3. The Story of an Hour
4. The Singing Lesson
5. B. Wordsworth

Poetry Section

1. The Darkling Thrush
2. Birches

3. The Dolphins
4. John Brown
5. Dover Beach

Drama Section

The Tempest : Act 3, 4 & 5

MATHEMATICS

Book :- ISC Mathematics Vol. I & II

UNIT TEST - I

- Ch1.Relations and functions
- Ch 2. Inverse Trigonometric Functions
- Ch3.Matrices
- Ch : 4 Determinants
- Ch 5. Continuity and Differentiability

HALF YEARLY EXAMINATION

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 EXAMINATION

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

Preliminary Examination

All the chapters mentioned in Half Yearly and Annual

PHYSICS

Book :- Nootan ISC Physics Vol. I

UNIT TEST – I

Unit – 1: Electrostatics

1. Electric Charges and Fields
2. Gauss' Theorem

3. Electric Potential and Potential Energy
4. Capacitors & Dielectrics
5. Electric resistance & Ohm's Law
6. DC Circuits & Measurements

Half Yearly Examination

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

Prelim 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

Prelim 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
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- 26. Semiconductor Electronics
- 27. Junction Diodes

BIOLOGY

Book :- Srijan Biology for ISC

Unit test 1:

Unit 1: Reproduction

- (i) Reproduction in organisms.
- (ii) Sexual reproduction in flowering plants.
- (iii) Human reproduction.
- (iv) Reproductive Health.

Half Yearly exam:

1. Unit 1: Reproduction

- (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) Human health and Diseases.
- (ii) Microbes in human welfare.

4. Unit 4: (Biotechnology and its Applications) :

- (i) Biotechnology – principles and processes.

5. Unit 5: Ecology and Environment:

- (i) Organisms and Populations.
- (ii) Biodiversity and its conservation.

Prelims:

1. Unit III :

Strategies for enhancement in food production.

2. Unit IV:

Biotechnology and its Applications.

3. Unit V:

- (i) Ecosystem.
- (ii) 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).

CHEMISTRY

Book :- Nootan ISC Chemistry Vol. I & II

UNIT TEST – I

1. Solutions
2. Co-ordination Compounds
3. Haloalkanes and Haloarenes

HALF YEARLY EXAMINATION

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

PRELIMINARY EXAMINATION

1. Solid State
2. Electrochemistry
3. General Principles and Processes of Isolation of Elements
4. Organic Compounds Containing Nitrogen

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

HISTORY

Book :- ISC History

UNIT TEST - I

Chapter 1 & Chapter2

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 HalfYearly 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.
- 9) Indian Constitution - The Preamble and it's salient features
- 10) Fundamental Rights.

Half - Yearly - (Including 1st Unit Test portion)

- 4) Our Constitution
- 5) Franchise & Representative
- 6) Organs of Government - Legislature
- 11) Directive Principles of State policy

Pre-board I & II

All the chapters

SOCIOLOGY

UNIT TEST I

Chapter 1. Social Institutions

Chapter 2. Religion and Society

HALF YEARLY

Chapter 3. Political Organization

Chapter 4. Economic Organization

Unit test I portion included

PRE BOARD I & II

Full book

MORAL SCIENCE

Book : Heart and Mind – 12

HALF YEARLY EXAMINATION

Chapter 1 : Modern Lifestyle

Chapter 2 : Modern Day Slavery

Chapter 3: Respecting Diversity

Chapter 4 : Ragging a Torture

BENGALI

Unit Test 1

গদ্য: নাপাহারারপরীক্ষা	5
পদ্য: রাস্তাকারোএকারনয়।	5
কোনি: অধ্যায়৯- ৪ ও৯পরিচ্ছেদ। 5	
ব্যাকরণ: ১) এককথায়প্রকাশ	2
২) ছেদওযতি	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: লছমেনেরমা, একটিতুলসীগাছেরকাহিনি, না- পাহারারপরীক্ষা, একাদশশ্রেণিরসব।

পদ্য: রাস্তাকারোএকারনয়, স্বাধীনতাতুমি, নুন, একাদশশ্রেণিরসব।

কোনি: অধ্যায়১-১৪

Language: Total marks 40

ব্যাকরণ: 10

(বাক্য, বাচ্যওউক্তিপরিবর্তন, সমার্থকশব্দ, প্রায়সমোচ্চারিতভিন্নার্থকশব্দ, এককথায়প্রকাশ, ছেদ- যতি, বাক্যওবানানসংশোধন, বাগধারা)

রচনা: 15

বোধপরীক্ষণ: 15

Total 40

Preliminary test

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

*Marks division same as previous examinations.