

HOLY CROSS SCHOOL, AGARTALA

SYLLABUS FOR CLASS X 2025

HALF YEARLY EXAMINATION

1. ENGLISH LANGUAGE

As discussed in the class.

Unit Test I

1) Preposition 2) Transformation of Sentences

2. ENGLISH LITERATURE

Short Stories

- 1) With the photographer
- 2) The Elevator

Poems

- 1) Haunted Houses
- 2) The Gloves and the Lion
- 3) When great Trees fall

Julius Caesar: William Shakespeare

- 1) Act III

Unit Test: I

Act 3 Sc (i) Julius Ceasar

[till *Dost thou here Lie (Line:210)*]

3. PHYSICS

- 1) Force
- 2) Work Energy and Power
- 3) Machine
- 4) Refraction of Light at Plane Surface
- 5) Refraction through lens

Unit Test I – Work, Energy and Power

4. CHEMISTRY

Ch. 1) Periodic Table, Periodic Properties and Variation of Properties.

Ch. 2) Chemical Bonding

Ch. 3) Acids, Bases and Salts (A, B, C)

Ch. 4) Analytical Chemistry

Ch. 10) Study of Compounds C – Nitric Acid

Ch. 11) Study of Compounds D – Sulphuric Acid

Unit Test I

Ch. 1) Periodic Table

Ch. 2) Chemical Bonding

5. BIOLOGY

Chapters

- 2) Structure of Chromosome, Cell Cycle and Cell division
- 3) Genetics – Some basic fundamentals
- 4) Absorption by roots
- 5) Transpiration
- 6) Photosynthesis
- 7) Chemical Coordination in plants
- 16) Pollution

Unit Test I

Chapter 3 – Genetics – Some Basic Fundamentals

6. MATHEMATICS

Ch. 1) GST

Ch. 2) Banking

Ch. 4) Linear Inequations

Ch. 5) Quadratic Equations

Ch. 6) Solving problems (Based on Quadratic Equations)

Ch. 7) Ratio and Proportion

Ch. 8) Remainder and Factor Theorem

Ch. 15) Similarity

Ch. 25) Probability

Unit Test I

Co-ordinate Geometry

Ch. No. 12, 13, 14

7. COMPUTER

1) Java Programming (Revision of Class IX)

2) Class as the Basis of All Computation

3) Constructors

4) Library Class

5) String Handling

Unit Test I

Class as the Basis of All computation

8. HISTORY & CIVICS

Civics (H/Y)

Ch 1. The Union Legislature

Ch. 2. The Union Executive: The President and the vice President.

Ch.3. The Supreme Court

History (H/Y)

Ch.1. The First was of Independence 1857.

Ch.2. Factors leading to the growth of Nationalism and Indian National Congress.

Ch.3. First Phase of the Indian National movement (1885-1907)

Ch.4. Second phase of the Indian National Movement (1905-1916)

Ch.5. Formation of the Muslim League and the Home Rule Movement.

Ch.6. The National Movement (1915-1934)

Ch.7. The National Movement (1935-1942)

Unit Test-I :

1) The Union Legislature

9. GEOGRAPHY

1, 2, 3, 4, 5, 6, 7

Map of India

Topo Sheets 45 ^D/₇ & 45 ^D/₁₀

Unit Test I – Topo Sheets and Map Of India

10. **HINDI**

Sahitya Sagar

Poem

- 1) Wo Janam Bhumi Meri
- 2) Vinaya Ke Pad

Naya Rasta

Lessons – 13 to 19

Grammar

Essay, Letters, Comprehension and G. Grammar

Unit Test I – Vinaya Ke Pad

11. **BENGALI**

Section – A

- 1) Rachana (Unseen)
- 2) Chithi (Unseen)
- 3) Bodh Pareekshan (Unseen)
- 4) Vyakaran :
 - i) Vaakya – Nirdeshak, Prashnabodhak etc (pg 506 – 517)
 - ii) Tatsama O Tadbhaba Shabda (Pg. No. 383 – 384) Bideshi Shabda pg – 386 - 391
 - iii) Bhinnarthabodhak Samochchaarita Shabda (Pg. No. 572 – 577 Achyut – Marma)
 - iv) Pratyay (Pg. No. 402 - 438)
 - v) Sathik Vaakya Gathan O Shuddhikaran (Pg. No. 587 – 602)
 - vi) Ukti Paribartan (Pg 498)

Section – B

- 5) Sankalita
 - i) Chhoto Galpa
 - (a) Asahayogee – Manik Bandyopadhyay
 - (b) Debatar Janma – Shibram Chakraborty
 - (c) Neel Manusher Kahini – Sunil Gangopadhyay
 - ii) Kabita
 - (a) Babu Balen – Sankha Ghosh
 - (b) Amal Kanti – Neerendranath Chakraborty
 - (c) Khokho – Amitabha Das Gupta

Including Class IX Syllabus

Unit Test I

Neel Manusher Kahini – Sunil Gangopadhyay

12. **M. Sc.**

Half-Yearly

Garden of Life Book 10

Chapter IA, IB, 2A, 2B, 3A, 3B

Assignment will be given based on these Lessons

13. **Physical Education**

Half yearly

Section A: 1) Human Growth and development.
2) Body types
3) Sports training.
4) Health Education.

Section B: Candidates will be required to answer questions on any two of the following team games- Cricket, Football, Hocker, Basket ball, volleyball. Badminton.

Unit Test 1 - Sports training.

14. **Robotics & AI Syllabus**

Half Yearly-2025

Robotics

Chapter 1 New Age Robotic Systems(Unit Test 1)

Chapter 2 From Robots to Cobots

AI

Chapter 1 Decision Making in Machines/Computers

Chapter 4 Introduction to Data and Programming with Python(Unit Test 1)

15. **ART**

- 1) Still Life
- 2) Original Imaginative Composition in Colour
- 3) Design the upper portion of umbrella with acrylic colour. (C/W)

16. **SUPW**

- 1) Making flowers vase (by using old waste paper.)

FINAL EXAMINATION

1. **ENGLISH LANGUAGE**

As discussed in the class.

Unit Test II

- 1) Synthesis of Sentences
- 2) Formal Letter

2. **ENGLISH LITERATURE**

Short Stories

- 1) The girl who can
- 2) The Last Lesson
- 3) The Pedestrian

Poems

- 1) A Considerable speck
- 2) The power of Music

Julius Caesar

- 1) Act IV
- 2) Act V

Unit Test II

Act IV of Julius Caesar

Sc i, ii, iii [till *Dost thou here Lie (Line:82)*]

[Half Yearly Syllabus included]

3. **PHYSICS**

- 1) Force
- 2) Work Energy and Power
- 3) Machine
- 4) Refraction of Light in Plane Surface
- 5) Refraction through lens
- 6) Spectrum
- 7) Sound
- 8) Current Electricity
- 9) House hold Current
- 10) Electromagnetism
- 11) Calorimetry
- 12) Radio activity

Unit Test II – Current Electricity

4. **CHEMISTRY**

Ch. 5) Mole Concept and Stoichiometry [A,B,C,D]
 Ch. 6) Electrolysis
 Ch. 7) Metallurgy [A, B, C, D]
 Ch. 8) Study of Compounds – A. Hydrogen Chloride
 Ch. 9) Study of Compounds – B. Annonia
 Ch. 12) Organic Chemistry [A, B, C, D, E, F]
 Ch. 13) Practical Work

Unit Test II

Chapter 8 & Chapter 9

N.B.- Whole syllabus is included in the Final Exam

5. **BIOLOGY**

Chapters

- 8) The Circulatory System
- 9) The Excretory System
- 10) The Nervous System
- 11) Sense Organs
- 12) The Endocrine System
- 13) The Reproductive System
- 14) Human Evolution
- 15) Population

Unit Test II

Chapter 9 – Excretory system

N.B. All Chapters of Half Yearly and Annual Included

6. **MATHEMATICS**

Final Exam – Whole Book

Unit Test II

Mensuration

Ch. 20 – Cylinder, Cone and Sphere

7. **COMPUTER**

- 1) User Defined Methods
- 2) Encapsulation and Inheritance
- 3) Arrays

Half Yearly Syllabus also included

Unit Test II – User Defined Methods

8. **HISTORY & CIVICS**

Civics (Final)

Ch. 3. The Union Executive: The Prime Minister and the Council of Ministers.

Ch. 5. The High Court and the Subordinate Courts.

History (Final)

Ch.8. Forward Bloc and Indian National Army (INA)

Ch. 9. Independence and the Partition of India (1942-1947)

Ch. 10. The First World War (1914-1918)

Ch. 11. Rise of Dictatorships and the Second World War.

Ch. 12. The United Nations Organisation.

Ch. 13. Major Agencies of the United Nation

Ch.14. The Non-Aligned Movement

Unit Test-II :

United Nation and Agencies

9. **GEOGRAPHY**

Chapters 8,9,10,11,12,13,14,15,16,17,18,19

All the Chapters of Half Yearly Examination Included
 Map of India

Topo Sheets 45 ^{D/7} & 45 ^{D/10}

Unit Test II – Transport

10. **HINDI**

Sahitya Sagar

Poem

- 1) Bhikshuk
- 2) Chalna Hamara Kam Hai
- 3) Matri Mandir Ki Ore

Naya Rasta (Novel)

Lessons – 19 to 26

Grammar

Essays, Letters, Comprehension and G. Grammar

Unit Test II – Bhikshuk

11. **BENGALI**

Section – A

- 1) Rachana (Unseen)
- 2) Chithi (Unseen)
- 3) Bodh Pareekshan (Unseen)
- 4) Vyakaran :
 - i) Eki Shabder Bhinnarthe Prayog (Pg. No. 537 – 546)
 - ii) Vaachya (Pg. No. 521 – 525)
 - iii) Upasarga O Anusarga (Pg. No. 448 – 5455)
 - iv) Ek Kathay Prakash (Pg. No. 462 - 480)
 - v) Abangali Shabder Banglay Rupantar

Section – B

- 5) Sankalita
 - i) Chhoto Galpa
 - (a) Gandhata Khub Sandehajanak – Sheersshendu Mukhopadhyay
 - (b) Lokti – Humayun Ahmed
 - ii) Kabita
 - (a) Rabindranather Prati – Buddhadeb Basu
 - (b) Phul Phutuk Naa phutuk – Subhash Mukhopadhyay

Including full syllabus of Class IX and Half Yearly Syllabus of Class X.

Unit Test II

Gandhata Khub Sandehajanak – Sheersshendu Mukhopadhyay

12. **M. Sc.**

Final

Garden of Life Book 10

4A, 4B, 5A, 5B

Field Trip to the Village for Social awareness.

Assignment will be given based as the Field Trip to describe their experiences.

13. Physical Education

Final Examination.

Section A:

- 1) Physical Education.
- 2) Physical Fitness
- 3) Safety in Sports
- 4) Carriers in Physical Education.

Section B: Same games have to be studied once again as mentioned above.

Unit Test 2: Physical Fitness.

[Including all the Syllabus of Half yearly exam Section A & Section B).

14. Robotics & AI Syllabus

Robotics

Chapter 3 Components of Robots as a System(Unit Test 2)

Chapter 4 Visualisation, Design, and Creation of Components

Chapter 5 Integrating Robots as a System

AI

Chapter 2 Machine Intelligence and Cybersecurity in Computing

Chapter 3 Components of AI Framework

Chapter 4 Introduction to Data and Programming with Python(Unit Test 2)

15. ART

- 1) Still Life
- 2) Original Imaginative Composition in Colour
- 3) Relief work C/W

Final Project

1. Two still life
2. Two composition in colour.
3. Big water clay pot Design with acrylic colour

16. SUPW

- 1) Collage painting
 - 2) Making flowers vase by using old waste paper.
- ICSE final project student will submit their collage painting or flower vase along with project copy being covered with yellow cover.

[Note : Half Yearly Syllabus for all the Subjects will be included in the Final Examination.]

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