

SYLLABUS 2024-25



शिक्षा का दीप जलाएँ - सतयोग का हथ बजाएँ

AGRASAIN BOYS' SCHOOL

[Affiliated to Council for the Indian School Certificate Examinations, New Delhi]

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XI-SCI



AGRASAIN BOYS' SCHOOL

Affiliated to the Council for the Indian School Certificate Examinations, New Delhi
21/A, AGRASAIN STREET, LILUAH, HOWRAH – 711 204

Class : XI - Sci

Syllabus: 2024-25

XI-SCI

Dear Parents,

All teachers have been advised to follow this syllabus and teaching schedule strictly.

In case your child is sick or absent for a long time, please prepare him as per schedule of chapters given in this booklet.

Teachers of all sections will complete the syllabus at least two weeks before Assessment Test to facilitate interactive revision.

All workbooks will be filled in by students and submitted to subject teachers for checking as the chapters are completed term wise.

In case of difficulty please contact respective Teacher-in-Charge (Primary/Secondary).

Your co-operation will ensure better education to your child.

Principal

English Language

ASSESSMENT I

1. Composition
2. (a) Directed writing (article writing, report writing) based on suggested points.
(b) Proposal Writing
3. Short-answer questions to test grammar, structure and usage.
4. Comprehension.

ASSESSMENT II

1. Composition
2. (a) Directed writing (article writing, report writing, Book review, speech writing) based on suggested points.
(b) Proposal Writing
3. Short-answer questions to test grammar, structure and usage.
4. Comprehension.

PERIODICAL

1. Composition
2. (a) Directed writing (article writing, newspaper report, Book review, speech writing, and statement of purpose) based on suggested points.
(b) Proposal Writing
3. Short-answer questions to test grammar, structure and usage.
4. Comprehension.

ASSESSMENT II

1. Composition writing
2. Directed writing (article writing, newspaper report, Book review, speech writing, and statement of purpose) based on suggested points.
(b) Proposal Writing
3. Short-answer questions to test grammar, structure and usage.
4. Comprehension.

PROJECT

Listening and speaking skills (topics for speaking skills will be provided by the subject teachers during the classes)

ENGLISH LITERATURE

Books prescribed:

1. **DRAMA:** Macbeth – William Shakespeare (Acts I till pages done)
2. **PRISM:** A Collection of ISC Short Stories (Evergreen Publications (India) Ltd. New Delhi)
3. **RHAPSODY:** A Collection of ISC Poems (Evergreen Publications (India) Ltd. New Delhi)

ASSESSMENT I

- I. **DRAMA:** Macbeth – William Shakespeare (Act I)
- II. **PRISM:** A Collection of ISC Short Stories (Evergreen Publications (India) Ltd. New Delhi)
 1. A Living God-Lafcadio Hearn
 2. Advice to Youth – Mark Twain
- III. **RHAPSODY:** A Collection of ISC Poems (Evergreen Publications (India) Ltd. New Delhi)
 3. Abhisara: The Tryst – Rabindranath Tagore
 4. Why I Like the Hospital – Tony Hoagland

ASSESSMENT II

- I. **DRAMA:** Macbeth – William Shakespeare (Act II)
- II. **PRISM:** A Collection of ISC Short Stories (Evergreen Publications (India) Ltd. New Delhi)
 1. The Paper Menagerie – Ken Liu
 2. The Great Automatic Grammatizator – Roald Dahl
 3. Atithi/Guest – Rabindranath Tagore
- III. **RHAPSODY:** A Collection of ISC Poems (Evergreen Publications (India) Ltd. New Delhi)
 1. Sonnet 116- William Shakespeare
 2. Death of a Naturalist – Seamus Heaney

PERIODICAL

- I. **DRAMA:** Macbeth – William Shakespeare (Act I & Act II)
- II. **PRISM:** A Collection of ISC Short Stories (Evergreen Publications (India) Ltd. New Delhi)
 1. A Living God-Lafcadio Hearn
 2. Advice to Youth – Mark Twain
 3. The Paper Menagerie – Ken Liu
 4. The Great Automatic Grammatizator – Roald Dahl
 5. Thank You, Ma'am – Langston Hughes
- III. **RHAPSODY:** A Collection of ISC Poems (Evergreen Publications (India) Ltd. New Delhi)
 1. Abhisara: The Tryst – Rabindranath Tagore
 2. Why I Like the Hospital – Tony Hoagland
 3. Sonnet 116- William Shakespeare
 4. Death of a Naturalist – Seamus Heaney
 5. Telephone Conversation – Wole Soyanka

ASSESSMENT III

- I. **DRAMA:** Macbeth – William Shakespeare (Act I, II, III full)
- II. **PRISM:** A Collection of ISC Short Stories (Evergreen Publications (India) Ltd. New Delhi)
 1. A Living God-Lafcadio Hearn

2. Advice to Youth – Mark Twain
3. The Paper Menagerie – Ken Liu
4. The Great Automatic Grammatizator – Roald Dahl
5. Thank You, Ma'am – Langston Hughes

III. RHAPSODY: A Collection of ISC Poems (Evergreen Publications (India) Ltd. New Delhi)

1. Abhisara: The Tryst – Rabindranath Tagore
2. Why I Like the Hospital – Tony Hoagland
3. Sonnet 116- William Shakespeare
4. Death of a Naturalist – Seamus Heaney
5. Strange Meeting-Wilfred Owen

PROJECT

1. With reference to the first act of Macbeth, what role do you think the witches and Lady Macbeth played to ignite the ambition in Macbeth's character ?
2. „Abhisara – The Tryst“ is a story – poem based on Upagupta, a Buddhist monk who lived in 300 BCE and was revered by Emperor Ashoka.

Adhere the following instructions:

1. Life history of Rabindranath Tagore.
2. Theme of the poem.
3. Style of the poem.
4. Life history of Upagupta, a Buddhist monk.
5. There should be clarity in what you are writing. Support your write up with some data and sufficient photographs.
6. Conclude (word limit 1000 – 1500 words)

The written assignment must follow the structure given below:

Introduction:

-Explanation of the question that has been framed

- explanation of how the candidate intends to interpret the chosen text and Literary materials used in the process

- ❖ Main Body – organised and well-structured treatment of the question using appropriate sub-headings.
- ❖ Conclusion – comprehensive summary of the points made in the main body.

INSTRUCTIONS TO THE CANDIDATES FOR ENGLISH PROJECTS :

- ❖ The Projects are for ISC Board.
- ❖ Handwriting should be neat and clear.
- ❖ Write relevant matter and make it very creative.
- ❖ Relevant pictures and quotations must be there. Pictures only on the non-ruled sheet and write on the ruled side.
- ❖ Proper heading should be written in BOLD.
- ❖ Significant lines, phrases and dialogues should be highlighted.
- ❖ Do not use red and green ink.
- ❖ Write relevant details on the first page itself.
- ❖ School logo Subject, topic, submitted by and submitted to should be clear and legible.

Listening and speaking skills (topics for speaking skills will be provided by the subject teachers during the classes)

2nd LANGUAGE: HINDI

पुस्तक :

- १) काव्य मंजरी
- २) गद्य संकलन
- ३) हिन्दी व्याकरण मंजूषा
- ४) सारा आकाश

ASSESSMENT I

पुस्तक – काव्य मंजरी

- ❖ साखी
- ❖ बाल लीला

पुस्तक - गद्य संकलन

- ❖ पुत्र-प्रेम
- ❖ गौरी

पुस्तक- सारा आकाश

- ❖ पूर्वाद्ध : साँझ (खण्ड – १,२,३)

पुस्तक- हिन्दी व्याकरण मंजूषा

- ❖ अपठित गद्यांश
- ❖ अशुद्ध वाक्यों को शुद्ध करना (१-५०)
- ❖ मुहावरे (१-५०)
- ❖ निबंध

ASSESSMENT II

पुस्तक – काव्य मंजरी

- ❖ एक फूल की चाह
- ❖ आ: धरती कितना देती है
- ❖ नदी के द्वीप

पुस्तक - गद्य संकलन

- ❖ शरणागत
- ❖ सती
- ❖ आउट साइडर

पुस्तक- सारा आकाश

- ❖ पूर्वाद्ध – साँझ (खण्ड ४,५,६,७,)

पुस्तक- हिन्दी व्याकरण मंजूषा

- ❖ निबंध
- ❖ अपठित गद्यांश
- ❖ अशुद्ध वाक्यों को शुद्ध करना (५१-१५०)
- ❖ मुहावरें (५१-१५०)

PERIODICAL

पुस्तक – काव्य मंजरी

- ❖ तुलसी के पद
- ❖ जाग तुझको दूर जाना है

पुस्तक - गद्य संकलन

- ❖ दासी
- ❖ क्या निराश हुआ जाए?

पुस्तक- सारा आकाश

- ❖ पूर्वाद्ध – साँझ (खण्ड – ८-१०)
- ❖ उत्तरार्द्ध : सुबह (खण्ड- १,२,३)

पुस्तक- हिन्दी व्याकरण मंजूषा

- ❖ निबंध
- ❖ अपठित गद्यांश
- ❖ अशुद्ध वाक्यों को शुद्ध करना (१५१-२००)
- ❖ मुहावरें (१५१-२००)

ASSESSMENT III

पुस्तक – काव्य मंजरी

- ❖ उद्यमी नर
- ❖ बादल को घिरते देखा हैं
- ❖ साखी
- ❖ बाल-लीला
- ❖ एक फूल की चाह
- ❖ आ: धरती कितना देती हैं
- ❖ नदी के द्वीप
- ❖ तुलसीदास के पद
- ❖ जाग तुझको दूर जाना हैं |

पुस्तक - गद्य संकलन

- ❖ क्या निराश हुआ जाए ?
- ❖ भक्तिन
- ❖ संस्कृति क्या है?
- ❖ पुत्र प्रेम
- ❖ गौरी
- ❖ शरणागत
- ❖ सती
- ❖ आउट-साइडर
- ❖ दासी

पुस्तक- सारा आकाश

- ❖ उत्तरार्द्ध : सुबह (खण्ड – ४,५)
- ❖ पूर्वार्द्ध : साँझ (१-१०)

पुस्तक- हिन्दी व्याकरण मंजूषा

- ❖ निबंध
- ❖ अपठित गद्यांश
- ❖ अशुद्ध वाक्यों को शुद्ध करना (सम्पूर्ण आई. एस. सी पाठ्यक्रम)
- ❖ मुहावरें (सम्पूर्ण आई. एस. सी पाठ्यक्रम)

PROJECT

निम्नलिखित विषयों पर परियोजना तैयार कीजिए।

परियोजना- (600-800 शब्दों में)

- ❖ 'बाल लीला' पद्य को कहानी में रूपांतरित करते हुए परियोजना तैयार कीजिए।
- ❖ कहानी कला की दृष्टि से 'शरणागत' कहानी की समीक्षा करते हुए परियोजना तैयार कीजिए।

Listening and speaking skill to be done in regular Hindi class.

2nd LANGUAGE : BENGALI

পুস্তক:

- 1) ISC প্রবন্ধওগদ্যসংকলন, ISC কবিতাসংকলন, কোনি, ভাষা সোপান।

ASSESSMENT I

- ❖ গল্প -ঠাকুরদা, জোড়াসাঁকোরধারে।
- ❖ কবিতা – ওরাকাজকরে, রাস্তাকারোএকারনয়।
- ❖ কোনি – ১ - ২ অধ্যায়।

- ❖ ব্যাকরণ- ISC সমগ্র পাঠ্যক্রম।
- ❖ নিমিত্তি – প্রবন্ধরচনা,মৌলিকগল্পলিখন, বোধপরীক্ষন।

ASSESSMENT II

- ❖ গল্প – অনাচার, রেকর্ড + 1st Assessment syllabus.
- ❖ কবিতা – সালেমনের মা, স্বাধীনতা তুমি + 1st Assessment syllabus
- ❖ কোনি – ১-৩ অধ্যায়।
- ❖ ব্যাকরণ- ISC সমগ্র পাঠ্যক্রম।
- ❖ নিমিত্তি – প্রবন্ধরচনা, মৌলিকগল্পলিখন, বোধপরীক্ষন।

PERIODICAL

- ❖ গল্প -আদাব + 1st + 2nd Assessment syllabus.
- ❖ কবিতা – পুষ্কশ্চিম, নুন+ 1st + 2nd Assessment syllabus.
- ❖ কোনি- ১-৪থঅধ্যায়।
- ❖ ব্যাকরণ - ISC সমগ্র পাঠ্যক্রম।
- ❖ নিমিত্তি – প্রবন্ধরচনা, মৌলিকগল্পলিখন, বোধপরীক্ষন।

ASSESSMENT III

- ❖ গল্প-তাসেরঘর, বীর্যশুঙ্কা + 1st+ 2nd + periodical syllabus.
- ❖ কবিতা – বনলতাসেন + 1st+ 2nd + periodical syllabus.
- ❖ ব্যাকরণ - ISC সমগ্র পাঠ্যক্রম।
- ❖ কোনি- ১-৭ অধ্যায়।
- ❖ নিমিত্তি – প্রবন্ধরচনা, মৌলিকগল্পলিখন, বোধপরীক্ষন।

PROJECT

- ❖ তোমার পাঠ্য পুস্তকের অন্তর্গত যেকোনো একটি কবিতাকে ছোট গল্পের রূপ দান করো।
- ❖ তোমার পাঠ্য পুস্তকের অন্তর্গত যেকোনো একটি ছোট গল্পকে কবিতার রূপ দান করো।
- ❖ তোমার পাঠ্য পুস্তক এর অন্তর্গত যেকোনো একটি ছোট গল্প বা কবিতার বর্তমান সময়ের নিরিখে প্রাসঙ্গিকতা বিচার করো।
- ❖ তোমার পাঠ্য পুস্তকের অন্তর্গত যেকোনো একটি ছোটগল্পের চরিত্র বিশ্লেষণ কর অথবা যেকোনো একটি কবিতার প্রেক্ষাপট আলোচনা কর।

Listening and speaking skill will be held in regular classes.

MATHEMATICS

ASSESSMENT I

- ❖ **Section A:** Set, Trigonometry (up to multiple angles), Quadratic Equations, Linear Inequalities, Relations, Complex Numbers
- ❖ **Section B:** 3D Geometry
- ❖ **Section C:** Statistics

ASSESSMENT II

- ❖ **Section A:** Functions, Trigonometry (Remaining), Straight Lines, Limits and Derivatives
- ❖ **Section B:** Conic Sections(Parabola, Ellipse)
- ❖ **Section C:** Correlation Analysis

Note: All the chapters in 1st assessment are also included in 2nd Assessment syllabus.

1st project should be submitted 15 days prior to the 2nd Assessment examination

PERIODICAL

- ❖ **Section A:** Binomial Theorem, Circles, Permutation and Combinations
- ❖ **Section B:** Conic Sections(Hyperbola), Mathematical Reasoning.
- ❖ **Section C:** Index Number and Moving Averages.

Note: All the chapters in 1st Assessment are also included in 2nd Assessment syllabus.

ASSESSMENT III

- ❖ **Section A:** Sequence and series, Probability and statistics

Note: All the chapters in 1st Assessment, 2nd Assessment and Periodical are also included in 3rd Assessment syllabus.

PROJECT

The complete mathematics project file consisting of two math projects need to be submitted 15 days prior to the 3rd assessment examination.

PHYSICS

Books prescribed:

ISC PHYSICS - Nageen Prakashan Pvt. Ltd

ASSESSMENT I

- ❖ Elementary Mathematics
- ❖ Units and Measurement : Error Analysis
- ❖ Dimensional Analysis
- ❖ Motion in a Straight Line
- ❖ Motion in a Plane
- ❖ Newton's Laws of Motion

- ❖ Friction
- ❖ Uniform Circular Motion
- ❖ Work, Power and Energy
- ❖ Practical as per ISC norms

ASSESSMENT II

- ❖ Centre of Mass
- ❖ Moment of Inertia
- ❖ Gravitation
- ❖ Elasticity
- ❖ Fluid Pressure and Flow of Liquids
- ❖ Surface Tension
- ❖ Thermal Properties of Matter and Heat Transfer

Practical as per ISC norms

FULL SYLLABUS OF ASSESSMENT 1

PERIODICAL

- ❖ Thermodynamics
- ❖ Isothermal and Adiabatic Processes
- ❖ Heat Engine and 2nd Law of Thermodynamics
- ❖ Kinetic Theory of Gases

Practical as per ISC norms

FULL SYLLABUS OF ASSESSMENT 1 & 2

ASSESSMENT III

- ❖ Simple Harmonic Motion
- ❖ Free, Damped and Forced Oscillations
- ❖ Waves and Waves Motion
- ❖ Interference and Beats
- ❖ Stationary Waves and Vibration of Air Column
- ❖ Vibration of Stretched String
- ❖ Doppler Effect

FULL SYLLABUS OF PERIODICAL, ASSESSMENT 1 & 2

PROJECT

The students are advised to make a project based on any one of the topics for projects as advised/discussed by the subject teacher in school for ISC 2024-2025.

CHEMISTRY

ASSESSMENT I

- ❖ Some Basic concepts of Chemistry
- ❖ Structure of Atom
- ❖ Classification of Elements and periodicity in Properties

ASSESSMENT II

- ❖ Chemical Bonding and Molecular Structure
 - ❖ Redox
 - ❖ Thermodynamics
 - ❖ S block elements
- Practical: Titration**

PERIODICAL

- ❖ Organic Chemistry -1
 - ❖ Hydrocarbons
 - ❖ P-block element
 - ❖ States of Matter
- Practical: Salt Analysis**
Chapters of Assessment-1 and Periodical

ASSESSMENT III

- ❖ Chemical Equilibrium
 - ❖ Hydrogen
 - ❖ Environmental Chemistry
- AND FULL SYLLABUS OF PERIODICAL AND ASSESSMENT 1, 2**
Practical: Titration and salt analysis

PROJECT

The students are advised to make a project based on any one of the topics for projects as advised/discussed by the subject teacher in school for ISC 2024-2025.

BIOLOGY

ASSESSMENT I

- ❖ Unit 1. Diversity of living organisms
 - ❖ Ch-1. The living world
 - ❖ Ch-2. Biological classification
 - ❖ Ch-3. Plant kingdom
 - ❖ Ch-4. Animal kingdom
 - ❖ Unit-2. Structural organization in animals and plants
 - ❖ Ch-5. Morphology of flowering plants
 - ❖ Ch-6. Anatomy of flowering plants
- Practical: As per ISC curriculum**

ASSESSMENT II

- ❖ Ch-7. Structural organization in animals
- ❖ Unit 3 cell structure and function
- ❖ Ch-8. Cell- the unit of life
- ❖ Ch-9. Biomolecules
- ❖ Ch-10. Cell cycle and cell division
- ❖ Unit 4. Plant physiology
- ❖ Ch-11. Transport in plants
- ❖ Ch-12. Mineral nutrition

Practical: As per ISC curriculum

PERIODICAL

- ❖ Ch-13. Photosynthesis in higher plants
- ❖ Ch-14. Respiration in plants
- ❖ Ch-15. Plants growth and development
- ❖ Unit -5.Human physiology
- ❖ Ch-16. Digestion and absorption
- ❖ Ch-17. Breathing and respiration
- ❖ Ch-18. Body fluids and circulation.
- ❖ Ch-19. Excretory products and their elimination
- ❖ Ch-20. Locomotion and movement
- ❖ Ch-21. Neural control and co- ordination
- ❖ Ch-22. Chemical co-ordination and integration

Practical: As per ISC curriculum

ASSESSMENT III

Entire syllabus of ISC class XI

Practical: As per ISC curriculum

PROJECT

The complete mathematics project file consisting of two math projects need to be submitted 15 days prior to the 3rd assessment examination.

COMPUTER SCIENCE

Books prescribed:

Computer Science with JAVA (A Textbook for class XI) (DHANPAT RAI & CO.)

ASSESSMENT I

- ❖ Ch-1: Data Representation
- ❖ Ch-3: General OOP Concepts
- ❖ Ch-4: Introducing JAVA
- ❖ Ch-5: JAVA Fundamentals

Practical:

- ❖ Ch-:3,4,5

ASSESSMENT II

- ❖ Ch-1,3,4 and 5 (Revision)
- ❖ Ch-2: Propositional Logic and Hardware
- ❖ Ch-6: Flow of Control
- ❖ Ch-7: Classes in JAVA

Practical:

- ❖ Ch-:3,4,5,6,7

PERIODICAL

- ❖ Ch-1 to Ch-7 (Revision)
- ❖ Ch-8: Functions (Methods)
- ❖ Ch-9: Program Error Types and Basic Exception Handling
- ❖ Ch-10: Using Library Classes and Packages

Practical:

- ❖ Ch-:3,4,5,6,7,8,9,10

ASSESSMENT III

- ❖ Ch-1 to Ch-10 (Revision)
- ❖ Ch-11: Arrays
- ❖ Ch-12: Operations on Files
- ❖ Ch-13: Trends in Computing and Ethical Issues

Practical:

- ❖ Ch-:3,4,5,6,7,8,9,10,11,12

SUPW

ASSESSMENT II**Subsidiary service**

- ❖ Envelope making.
- ❖ Mask making.
- ❖ Homemade hand sanitizer.
- ❖ Project file.

ANNUAL :**Main craft service**

- ❖ Bottle craft.
- ❖ pickles preparation.
- ❖ Cleaning.

P.T.

ASSESSMENT II

- ❖ Jumping jack.
- ❖ Burpees.
- ❖ Kabaddi.
- ❖ Plank.
- ❖ AAPPHER physical fitness test.
- ❖ Classic squat.
- ❖ Toe touch.
- ❖ First -Aid.
- ❖ Side sitting.
- ❖ Chess.
- ❖ Carrom.

ANNUAL

- ❖ Push-ups.
- ❖ Sit-ups.
- ❖ 50 yard dash.
- ❖ Side Plank.
- ❖ Bicycle crunches.
- ❖ Badminton.
- ❖ Basketball.
- ❖ Football.
- ❖ Volleyball (Rules and Regulation).

YOGA

ASSESSMENT II

- ❖ Yoga prayer
- ❖ Om chanting
- ❖ Surya namaskar
- ❖ Setubandhasana
- ❖ Abdominal breathing
- ❖ Sheetal Pranayama

ANNUAL

- ❖ Brikhasana
- ❖ Ardha chakrasana
- ❖ Yogamudra
- ❖ Kapalbhati
- ❖ Anuloma- Viloma

