

CLASS  
**XI**

# SYLLABUS 2025-26

*Science*



शिक्षा का दीप जलाएँ - सहयोग का हाथ बढ़ाएँ

## AGRASAIN BOYS' SCHOOL

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

21/A, Agrasain Street, Liluah, Howrah-711204

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# AGRASAIN BOYS' SCHOOL

Affiliated to the Council for the Indian School Certificate Examinations, New Delhi  
21/A, Agrasain Street, Liluah, Howrah - 711 204  
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## SYLLABUS : 2025-26

**Class : XI**

Class : XI

*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*



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## SYLLABUS : 2025-26

**Class : XI**

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### ☐ ENGLISH LANGUAGE :

#### ❖ 1<sup>ST</sup> ASSESSMENT EXAMINATION:

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.

#### ❖ 2<sup>ND</sup> ASSESSMENT EXAMINATION:

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 EXAMINATION:

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.

#### ❖ 3<sup>RD</sup> ASSESSMENT EXAMINATION:

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.

#### ❖ Project

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

## □ ENGLISH LITERATURE :

### ❖ 1<sup>ST</sup> ASSESSMENT EXAMINATION:

- I. **DRAMA:** Macbeth – William Shakespeare (Act I till pages done)
- 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)
  1. Abhisara: The Tryst – Rabindranath Tagore
  2. Why I Like the Hospital – Tony Hoagland

### ❖ 2<sup>ND</sup> ASSESSMENT EXAMINATION:

- I. **DRAMA:** Macbeth – William Shakespeare (Act I full : Act II till pages done)
- 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 EXAMINATION:

- I. **DRAMA: Macbeth** – William Shakespeare (Acts I & 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

### ❖ 3<sup>RD</sup> ASSESSMENT EXAMINATION

- I. **DRAMA:** Macbeth – William Shakespeare (Acts I, II full; Act III -till pages done.)
- 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

**Projects**

1. **1<sup>st</sup> Assessment** - *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. **2<sup>nd</sup> Assessment** - *Give a modern context of the story The Great Automatic Grammatizator and discuss the horrors of Artificial Intelligence in the field of human art and creativity.*
3. **3<sup>rd</sup> Assessment** - *With reference to the poem Strange Meeting discuss the horrors of war and its impact on civilians. Refer to another poem or story of a similar theme and compare between the two.*
4. **Periodical Examination project will be an internal assessment taken in the class**

Candidates are required to undertake a written Assignment of **1000-1500** words on the above topic which should be structured as given below:

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

## □ 2<sup>ND</sup> LANGUAGE HINDI :

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

### ❖ 1<sup>ST</sup> ASSESSMENT EXAMINATION:

#### काव्य मंजरी

- 1) साखी
- 2) बाल लीला

#### गद्य संकलन

- 1) पुत्र-प्रेम
- 2) गौरी

#### सारा-आकाश

पूर्वाद्ध : साँझ ( खण्ड - १,२,३ )

#### हिन्दी व्याकरण मंजूषा

- 1) निबंध
- 2) अपठित गद्यांश
- 3) अशुद्ध वाक्यों को शुद्ध करना (१-५०)
- 4) मुहावरे (१-५०)

### ❖ 2<sup>ND</sup> ASSESSMENT EXAMINATION:

#### काव्य मंजरी

- 1) एक फूल की चाह
- 2) आ: धरती कितना देती है
- 3) नदी के द्वीप

#### गद्य संकलन

- 1) शरणागत
- 2) सती
- 3) आउट साइडर

#### सारा-आकाश

- 1) पूर्वाद्ध - साँझ (खण्ड ४,५,६,७,)

#### हिन्दी व्याकरण मंजूषा

- 1) निबंध

- 2) अपठित गद्यांश
- 3) अशुद्ध वाक्यों को शुद्ध करना (५१-१५०)
- 4) मुहावरें (५१-१५०)

❖ **PERIODICAL EXAMINATION:**

काव्य मंजरी

- 1) तुलसी के पद
- 2) जाग तुझको दूर जाना है

गद्य संकलन

- 1) दासी
- 2) क्या निराश हुआ जाए ?

सारा आकाश

पूर्वाद्ध - साँझ (खण्ड - ८-१०)

उत्तरार्द्ध : सुबह (खण्ड- १,२,३)

हिन्दी व्याकरण मंजूषा

- 1) निबंध
- 2) अपठित गद्यांश
- 3) अशुद्ध वाक्यों को शुद्ध करना (१५१-२००)
- 4) मुहावरें (१५१-२००)

❖ **3<sup>RD</sup> ASSESSMENT EXAMINATION:**

काव्य मंजरी

- 1) उद्यमी नर
- 2) बादल को घिरते देखा हैं
- 3) साखी
- 4) बाल-लीला
- 5) एक फूल की चाह
- 6) आ: धरती कितना देती हैं
- 7) नदी के द्वीप
- 8) तुलसीदास के पद
- 9) जाग तुझको दूर जाना हैं ।

गद्य संकलन

- 1) क्या निराश हुआ जाए ?
- 2) भक्तिन
- 3) संस्कृति क्या है?

- 4) पुत्र प्रेम
- 5) गौरी
- 6) शरणागत
- 7) सती
- 8) आउट-साइडर
- 9) दासी

सारा आकाश

उत्तरार्द्ध : सुबह (खण्ड - ४,५)

पूर्वार्द्ध : साँझ (१-१०)

हिन्दी व्याकरण मंजूषा

- 1) निबंध
- 2) अपठित गद्यांश
- 3) अशुद्ध वाक्यों को शुद्ध करना (सम्पूर्ण आई .एस. सी पाठ्यक्रम)
- 4) मुहावरें (सम्पूर्ण आई .एस. सी पाठ्यक्रम)

निम्नलिखित विषयों पर परियोजना तैयार कीजिए ।

परियोजना -(600-800 शब्दों में)

1. 'बाल लीला' पद्य को कहानी में रूपांतरित करते हुए सचित्र परियोजना तैयार कीजिए।
2. कहानी कला की दृष्टि से 'गौरी' कहानी की समीक्षा करते हुए सचित्र परियोजना तैयार कीजिए।
3. **Listening and speaking skill to be done in regular Hindi class.**

## □ 2<sup>ND</sup> LANGUAGE BENGALI :

**पुस्तक :** ISC प्रबन्ध ও গদ্যসংকলন, ISC প্রবন্ধ ও গদ্য সংকলন ওয়ার্কবুক ISC কবিতা সংকলন, কোনি, ভাষা সোপান।

### ❖ ASSESSMENT-I EXAMINATION:

গল্প - ঠাকুরদা, জোড়াসাঁকোর ধারে।

কবিতা - ওরা কাজ করে, রাস্তা কারো একার নয়।

কোনি - ১-২ অধ্যায়।

ব্যাকরণ- ISC সমগ্র পাঠ্যক্রম।

নির্মিত - প্রবন্ধরচনা, মৌলিক গল্প লিখন, বোধপরীক্ষন।

### ❖ ASSESSMENT-II EXAMINATION:

গল্প - অনাচার, রেকর্ড + 1<sup>st</sup> assessment syllabus.

কবিতা - সালেমনের মা, স্বাধীনতা তুমি + 1<sup>st</sup> assessment syllabus

কোনি - ১-৪ অধ্যায়।

ব্যাকরণ- ISC সমগ্র পাঠ্যক্রম।  
নির্মিত - প্রবন্ধ রচনা, মৌলিক গল্পলিখন, বোধ পরীক্ষন।

❖ **PERIODICAL EXAMINATION :**

গল্প -আদাব + 1<sup>st</sup> assessment + 2nd assessment syllabus.  
কবিতা - পূবপশ্চিম, নুন + 1<sup>st</sup> assessment + 2nd assessment syllabus.  
কোনি- ১-৬ অধ্যায়।  
ব্যাকরণ - ISC সমগ্র পাঠ্যক্রম।  
নির্মিত - প্রবন্ধরচনা, মৌলিক গল্পলিখন, বোধপরীক্ষন।

❖ **ASSESSMENT-III EXAMINATION:**

গল্প-তাসেরঘর, বীর্যশুঙ্কা + 1<sup>st</sup> assessment + 2<sup>nd</sup> assessment + periodical syllabus.  
কবিতা - বনলতাসেন + 1<sup>st</sup> assessment + 2<sup>nd</sup> assessment + periodical syllabus.  
ব্যাকরণ - ISC সমগ্র পাঠ্যক্রম।  
কোনি- ১-৭ অধ্যায়।  
নির্মিত - প্রবন্ধরচনা, মৌলিক গল্পলিখন, 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 to be done in regular class.**

□ **MATHEMATICS :**

1. **ISC Mathematics - Part I, Suranjan Saha, Sabita Saha, Kalyani Publishers**
2. **Understanding ISC Mathematics-XI, by M.L. Agarwal, Arya Publication**
3. **Frank ISC Mathematics (latest revised edition) by D.K. Bhattacharya, S.N. Chhibber & G. D. Dhall**
4. **Higher Mathematics: S.N. Dey (Latest Edition)**

❖ **ASSESSMENT-I EXAMINATION:**

Set, Trigonometry, Quadratic equations, Inequality, Complex numbers, Measures of dispersion.

❖ **ASSESSMENT-II EXAMINATION:**

Relation and Function, Straight lines, Limits and Derivatives, Parabola, 3D geometry.

**Note: All the chapters in Assessment – I are also included in Assessment – II syllabus. Project should be submitted 15 days prior to the Assessment -II examination.**

❖ **PERIODICAL EXAMINATION:**

Circle, Permutation and Combination, Binomial theorem, Ellipse.

**Note:** All the chapters in assessment-1 and assessment- 2 are included in periodical syllabus.

❖ **ASSESSMENT-III EXAMINATION:**

Sequence and Series, Probability, Hyperbola.

**Note:** All the chapters in Assessment – I and II, Periodical is also included in Assessment – III syllabus.

❖ **PROJECT**

The completed mathematics project file consisting of two mathematics projects need to submitted 15 days prior to the Assessment- 3 examination.

□ **PHYSICS :**

**Name of the book:** ISC PHYSICS

**Publisher:** Nageen Prakashan Pvt. Ltd.

**Written By:** Raj Kumar & G. L. Mittal

❖ **ASSESSMENT-I EXAMINATION:**

1. Newton's Laws of Motion
2. Friction
3. Uniform Circular Motion
4. Work, Power and Energy
5. Centre of Mass
6. Moment of Inertia

❖ **ASSESSMENT-II EXAMINATION:**

7. Gravitation
8. Elasticity
9. Fluid Pressure and Flow of Liquids
10. Surface Tension
11. Thermal Properties of Matter and Heat Transfer
12. Thermodynamics
13. Isothermal and Adiabatic Processes
14. Heat Engine and 2<sup>nd</sup> Law of Thermodynamics
15. Kinetic Theory of Gases

❖ **PERIODICAL EXAMINATION:**

1. Elementary Mathematics
2. Units and Measurement: Error Analysis
3. Dimensional Analysis
4. Motion in a Straight Line
5. Motion in a Plane

❖ **ASSESSMENT-III EXAMINATION:**

6. Simple Harmonic Motion
7. Free, Damped and Forced Oscillations
8. Waves and Waves Motion
9. Interference and Beats
10. Stationary Waves and Vibration of Air Column
11. Vibration of Stretched String
12. Doppler Effect

## AND FULL SYLLABUS OF PERIODICAL AND 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 2025-2026

### ☐ **CHEMISTRY:**

**Book: ISC Chemistry Volume I & II (K.L. CHUGH)**

#### ❖ **ASSESSMENT-I EXAMINATION:**

- Some basic concepts of Chemistry (Chap-1)
- Structure of Atoms (Chap-2)
- Classification of elements and periodicity in properties (Chap-3)
- Practical: Titration and salt analysis

#### ❖ **ASSESSMENT-II EXAMINATION:**

- Chemical bonding and molecular structure (Chap-4)
  - Thermodynamics (Chap-6)
  - Chemical Equilibrium (Chap-7, Part A)
  - Practical: Titration and salt analysis
- Full syllabus of Assessment I**

#### ❖ **PERIODICAL EXAMINATION:**

- Ionic Equilibrium (Chap-7, Part B)
  - Organic Chemistry some basic principle and technique
  - Practical: Titration and salt analysis
- Full syllabus of Assessment I and Assessment II**

#### ❖ **ASSESSMENT-III EXAMINATION:**

- Redox Reactions (Chap 8)
  - Hydrocarbon (Chap 13)
  - Practical: Titration, salt analysis and organic chemistry
- Full syllabus of Assessment I, Assessment II and Periodical**

#### ❖ **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 2025-2026.

### ☐ **BIOLOGY :**

**Book : ISC Biology A Text Book for Class-XI by Dr. S.C. Tripathi [latest edition]**

**(As per syllabus of ISC 2027), Balaji Publications.**

#### ❖ **ASSESSMENT-I EXAMINATION:**

##### **Unit-1. Diversity of living organisms.**

- Ch-1. The living world.
- Ch-2. Biological classification.
- Ch-3. Plank 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

❖ **ASSESSMENT-II EXAMINATION:**

Ch-7. Structural organization in animals. -Frog.

**Unit-3. Cell structure and function.**

Ch-8. cell-the unit of life

Ch-9. Biomolecules

Ch-10 Cell cycle and cell-division.

**Unit-1. Plant Physiology.**

Ch-13. Photosynthesis in higher plants.

Ch-14. Respiration in plants.

Ch-15. Plant growth and development.

❖ **PERIODICAL EXAMINATION:****Unit-5. Human Physiology.**

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

❖ **ASSESSMENT-III EXAMINATION:**

Entire syllabus of ISC Class – XI

Practical as per done in class.

❑ **COMPUTER SCIENCE:****Book prescribed:****Computer Science with JAVA (A Textbook for class XI) (DHANPAT RAI & CO.)**❖ **ASSESSMENT-I EXAMINATION:**

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

**Practical:**

Ch-: 3,4,5

❖ **ASSESSMENT-II EXAMINATION :**

- 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 EXAMINATION :**

- 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 EXAMINATION :**

- 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 EXAMINATION:**

**Subsidiary Service**

1. Envelope making.
2. Mask making.
3. Homemade hand sanitizer.
4. Project file.
5. Old age home visit

❖ **ASSESSMENT-III EXAMINATION:**

**Main craft service**

6. Bottle craft.
7. pickles preparation.
8. Cleaning.
9. Project file

□ **PHYSICAL TRAINING (PT):**

❖ **ASSESSMENT-II EXAMINATION:**

1. March Past (Forward March).
2. Jogging and General Warming-up
3. Cardio Exercises:
  - a) Sprinting
  - b) Distance Running
  - c) Jumping Jack
  - d) Box Jump
4. Fitness Training:
  - a) Push-ups
  - b) Jump Squats
  - c) Bend knee sit-ups
  - d) Mountain Climbers
  - e) Plank Jacks
  - f) Jump rope

5. Tai chi (Basic)
6. First Aid
7. Indoor Games

❖ **ASSESSMENT-III EXAMINATION:**

1. Jogging, General Warming-up
2. Agility workout.
3. Tug-O-War
4. Team sports:
  - a) Soccer
  - b) Basketball
  - c) Handball
  - d) Kho-kho
  - e) Kabaddi
5. Fitness Training:
  - a) Plyometric exercises
  - b) Foam rolling
  - c) Lunges
  - d) Burpees
6. March Past (Forward March).

□ **YOGA (MEDITATION):**

❖ **ASSESSMENT-II EXAMINATION:**

- Yoga prayer
- Om Chanting
- Surya Namaskar
- Setubandhasana
- Abdominal Breathing
- Sheetal Pranayama

❖ **ASSESSMENT-III EXAMINATION:**

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

