IMPORTANT NOTICE: PRACTICAL EXAMINATIONS (DECEMBER 2026)

YOUR ISC CLASS 12 PRACTICAL EXAMINATIONS CAN BE CONDUCTED AT ANY TIME DURING DECEMBER 2026. ALL STUDENTS MUST BE COMPLETELY PREPARED IN ADVANCE.

- Practical Readiness & Viva-Voce: Revise all syllabus experiments, apparatus setups, salt/organic analysis steps, slide identifications, circuit connections, and viva questions thoroughly before December begins.
- Practical Journals & Lab Records: Every experiment must have a clean Aim, Apparatus/Materials, Theory/Principle, Observation Table, Graph/Diagram, Calculation/Result, and Precautions, duly signed and indexed.
- Investigatory / Subject Project Files: Complete all ISC-prescribed project files (including English/Hindi/Maths/Science projects where applicable) with a proper cover page, certificate/acknowledgement, index, detailed content, conclusion, and bibliography.
- Practical Exam-Day Essentials: Carry your valid School ID Card, signed Practical File, Project File, lab coat/apron (for Science practicals), transparent clipboard, blue/black pens, sharpened pencils, ruler, and geometry instruments on all practical exam days.

General Assignment & Class Notebook Instructions

- Final Submission Deadline: 15 December 2026 *(All written assignments, project files, practical records, and class notebooks must be submitted on or before this date; late submissions will incur a marks penalty).*
- Assignment Length & Quality: Keep each written assignment well-developed and focused (4–6 pages, roughly 450–700 words plus neat diagrams, tables, or worked

solutions). Write clearly in your own words using accurate ISC Class 12 terminology rather than verbatim copying.

- Mandatory 4-Part Format (Every Subject):
    1. Title Header: Subject, Assignment Topic, Student Name, Class & Section, Roll / UID Number, and Submission Date (15 December 2026).
    2. Objective & Syllabus Link: 3–4 lines stating the purpose of the assignment and its connection to the ISC Class 12 syllabus.
    3. Core Analysis & Framed Responses: Structured answers to both framed questions using clear headings, bullet points, comparison tables, labeled diagrams, or step-by-step derivations/working.
    4. Conclusion & Sources: 3–4 lines summarizing key takeaways along with textbooks, lab manuals, or reference sources consulted.
- Compulsory Class Notebook Mandate: All class notebooks across all six subjects must be 100% complete, properly indexed, teacher-corrected, and up to date by 15 December 2026. Notebooks will be inspected alongside assignments and practical records, and internal assessment, project, and practical marks will be awarded accordingly based on completeness, accuracy, and neatness.

1. English (English Language & Literature in English)

- Topic: *Persuasive Proposals, Moral Agency & Thematic Conflict*
- Questions:

    1. Language (Formal Proposal & Analytical Note): Draft a formal Proposal addressed to the School Principal or Municipal Authority outlining a practical initiative (such as a student peer-mentorship & reading hub or campus waste-segregation drive), covering objectives, proposed action plan, resource requirements, and expected outcomes, followed by a short note on why structured persuasion matters in public life.
    2. Literature (Critical Character & Theme Study): Select a major character from a prescribed drama, prose story, or poem in the ISC Class 12 syllabus and examine: *"How do moral dilemmas and external pressures shape this character's decisive actions?"* Support your analysis with two close textual references and explain the broader thematic significance.

2. Hindi

- ISC Syllabus Focus: निबंध लेखन (Essay), गद्य एवं काव्य पाठ (Prose & Poetry).
- Topic: *समकालीन समाज में मूल्य-बोध और साहित्यिक संवेदना*
- Questions:

    1. विश्लेषणात्मक निबंध (लगभग 400–450 शब्द): *"आधुनिक तकनीक और बदलती जीवनशैली: मानवीय संवेदनाओं पर प्रभाव"* विषय पर संतुलित तर्क, वास्तविक उदाहरण और व्यावहारिक सुझावों के साथ एक सुव्यवस्थित निबंध लिखें।
    2. साहित्यिक समीक्षा: ISC कक्षा 12 के पाठ्यक्रम से किसी एक कहानी, एकांकी या कविता का चयन करें और स्पष्ट करें कि रचनाकार ने मानवीय स्वभाव या सामाजिक यथार्थ के किस पहलू को उभारा है, तथा आज के संदर्भ में उसकी प्रासंगिकता क्या है।

3. Mathematics

- Topic: *Rates of Change, Optimization & Matrix/Vector Applications*
- Questions:

    1. Application of Derivatives & Rate Analysis: Frame two clear ISC-level analytical problems—one involving rate of change (such as radius, surface area, or volume changing with respect to time) and one involving maxima/minima optimization (such as maximizing area or minimizing cost under a given constraint). Show every differentiation and second-derivative test step clearly.
    2. Matrices, Integration & Conceptual Reasoning: Explain the role of invertible matrices in solving systems of linear equations (including consistency conditions and unique vs. no/infinite solutions) and contrast definite and indefinite integration with two well-explained worked examples.

4. Physics

- Topic: *Electrical Circuits, Electromagnetic Induction & Wave/Ray Optics*
- Questions:

    1. Circuits, Bridge Logic & Electromagnetic Induction: Explain the physical principles behind Kirchhoff's laws, why a null-deflection method (such as a metre bridge or potentiometer principle) is superior to a direct-deflection voltmeter reading, and how Faraday's laws and Lenz's law govern induced electromotive force and energy conservation.

2. Optics & Photoelectric Effect: Compare interference and diffraction of light in a structured table (fringe spacing, intensity distribution, conditions, and mechanism), and explain how the photoelectric effect supports the particle nature of electromagnetic radiation (threshold frequency, stopping potential, and effect of intensity vs. frequency).

5. Chemistry

- Topic: *Electrochemistry & Kinetics, Coordination Chemistry & Organic Reaction Pathways*
- Questions:

1. Electrochemistry & Reaction Rates: Explain the working of a galvanic cell (salt bridge function, anode/cathode reactions, and cell potential concept) and contrast order of reaction with molecularity, including why pseudo-first-order reactions behave as first-order under specific conditions.
2. Coordination Compounds & Organic Transformations: Explain bonding basics and IUPAC nomenclature in coordination compounds (ligands, coordination number, and isomerism overview), and write a clear comparative note distinguishing aldehydes from ketones or primary, secondary, and tertiary amines using key chemical tests and structural reasoning.

6. Biology

- Topic: *Gene Expression & Inheritance, Biotechnology & Human Physiology/Ecology*
- Questions:

    1. Genetics & Molecular Regulation: Explain Mendelian vs. non-Mendelian inheritance patterns (such as codominance or multiple alleles) and trace how genetic information flows from DNA to RNA to protein (transcription, genetic code features, and regulation of gene expression).
    2. Biotechnology & Human/Ecological Systems: Describe the steps of recombinant DNA technology (restriction enzymes, vectors, amplification/selection) and examine how immune defense mechanisms or ecological interactions and biodiversity conservation maintain biological balance.