

ISC Syllabus for Class 11

Physics

There are 2 papers in Physics –

- Theory paper
- Practical and project as mentioned below:

Paper I (Theory) – This will be a theory paper of 70 marks and 3 hours of time duration.

PAPER I- THEORY: 70 Marks

It is mandatory for the candidates to answer all the questions in the question paper. Students will be provided with two questions of 2 marks each, two questions of 3 marks each, and all the three questions of 5 marks each.

| S. NO. | UNIT | TOTAL WEIGHTAGE |
|--------------|--|-----------------|
| 1. | Physical World and Measurement | 23 Marks |
| 2. | Kinematics | |
| 3. | Laws of Motion | |
| 4. | Work, Energy and Power | 17 Marks |
| 5. | Motion of System of Particles and Rigid Body | |
| 6. | Gravitation | |
| 7. | Properties of Bulk Matter | 20 Marks |
| 8. | Heat and Thermodynamics | |
| 9. | Behaviour of Perfect Gases and Kinetic Theory of Gases | |
| 10. | Oscillations and Waves | 10 Marks |
| TOTAL | | 70 Marks |

Paper-II – This will consist of 30 marks. The subdivision is mentioned below:

- Practical – 15 marks (3 hours)
- Project Work – 10 marks
- Practical File – 5 marks

PRACTICAL WORK- 15 Marks

Students need to complete all the experiments from the given list:

- To measure the diameter of a spherical body using Vernier Calipers. Calculate its volume with appropriate significant figures. Also, measure its volume using a graduated cylinder and compare the two.
- Find the diameter of a wire using a micrometre screw gauge and determine percentage error in cross-sectional area.
- Determine the radius of curvature of a spherical surface like watch glass by a spherometer.
- Equilibrium of three concurrent coplanar forces. To verify the parallelogram law of forces and to determine the weight of a body.
- Inclined Plane, Friction
- To find the acceleration due to gravity by measuring the variation in the time period (T) with effective length (L) of a simple pendulum.

ISC Syllabus for Class 11 Computer Science

There are 2 papers in Computer Science – a. Theory paper and b. Practical and project as mentioned below:

Paper I (Theory) – This will be a theory paper of 70 marks and 3 hours of time duration.

PAPER I- THEORY: 70 Marks

(i) *Paper I shall be of 3 hours duration and be divided into two parts.*

(ii) **Part I (20 marks)**: *This part will consist of compulsory short answer questions, testing knowledge, application and skills relating to the entire syllabus.*

(iii) **Part II (50 marks)**: *This part will be divided into three sections, A, B and C. Candidates will be required to answer **two** questions out of **three** from Section A (each carrying 10 marks) and **two** questions out of **three** from Section B (each carrying 10 marks) and **two** questions out of **three** from Section C (each carrying 5 marks). Therefore, a total of **six** questions are to be answered in Part II.*

PAPER-II: PRACTICAL – 30 MARKS

This paper of three hours duration will be evaluated internally by the school. The paper shall consist of three programming problems from which a candidate has to attempt any one.

The practical consists of two parts:

(1) Planning Session

(2) Examination Session.

The total time to be spent on the Planning session and the Examination session is three hours. A maximum of 90 minutes is permitted for the Planning session and 90 minutes for the Examination session.

ISC Syllabus for Class 11 Chemistry

There are 2 papers in Chemistry –

- Theory paper
- Practical and project

Paper-I (Theory)– This will be a theory paper of 70 marks and 3 hours of time duration.

PAPER I- THEORY: 70 Marks

It is mandatory for the candidates to answer all the questions in the question paper. Students will be provided with two questions of 2 marks each, two questions of 3 marks each, and all the three questions of 5 marks each.

| S.No. | UNIT | TOTAL WEIGHTAGE |
|--------------|--|---|
| 1. | Some Basic Concepts of Chemistry | Physical Chemistry 32 Marks |
| 2. | Structure of Atom | |
| 3. | Classification of Elements and Periodicity in Properties | |
| 4. | Chemical Bonding and Molecular Structure | |
| 5. | States of Matter: Gases and Liquids | |
| 6. | Chemical Thermodynamics | |
| 7. | Equilibrium | |
| 8. | Redox Reactions | Inorganic Chemistry 15 Marks |
| 9. | Hydrogen | |
| 10. | s -Block Elements | |
| 11. | Some p -Block Elements | Organic Chemistry 23 Marks |
| 12. | Organic Chemistry: Some basic Principles and Techniques | |
| 13. | Hydrocarbons | |
| 14. | Environmental Chemistry | |
| TOTAL | | 70 Marks |

Paper-II – This will consist of 30 marks. The subdivision is mentioned below:

- Practical – 15 marks (3 hours)
- Project Work – 10 marks
- Practical File – 5 marks
- **PRACTICAL WORK- 15 Marks**
 - Candidates are required to complete the following experiments:
 - Titration:** acid-base titration involving molarity.
 - Qualitative analysis:** identification of single salt containing one anion and one cation

ISC Syllabus for Class 11 Biology

There are 2 papers in Biology –

- a. Theory paper
- b. Practical and project

Paper I (Theory)– This will be a theory paper of 70 marks and 3 hours of time duration.

PAPER I- THEORY: 70 Marks

It is mandatory for the candidates to answer all the questions in the question paper. Students will be provided with two questions of 2 marks each, two questions of 3 marks each, and all the three questions of 5 marks each.

| S.NO. | UNIT | TOTAL WEIGHTAGE |
|--------------|---|-----------------|
| 1. | Diversity of Living Organisms | 09 Marks |
| 2. | Structural Organisation in Animals and Plants | 11 Marks |
| 3. | Cell: Structure and Function | 15 Marks |
| 4. | Plant Physiology | 17 Marks |
| 5. | Human Physiology | 18 Marks |
| TOTAL | | 70 Marks |

Paper-II – This will consist of 30 marks. The subdivision is mentioned below:

- -Practical – 3 hours – 15 marks
- -Project Work – 10 marks
- -Practical File – 5 marks

PRACTICAL WORK – 15 Marks

1. Scientific Techniques
2. Physiology
3. Morphology
4. Cytology
5. Spotting

ISC Syllabus for Class 11 English

There are 2 papers in English –

- a. Theory paper
- b. Project work

Paper I: Theory (3 hours): 80 Marks

Paper-II: Project Work: 20 Marks

PAPER I- THEORY: 80 Marks

Question One: *A composition on one of a number of subjects.*

Question Two:

- (a) *Directed Writing*
- (b) *Proposal Writing*

Question Three: *Short-answer questions to test grammar, structure and usage.*

Question Four: *Comprehension.*

PAPER-II: PROJECT WORK – 20 Marks

Project Work in Class XI consists of an assessment of candidates in **Listening** and **Speaking Skills** which are to be assessed **internally**, by the School, during English course work and shown in the student's report and school record.

ISC Syllabus for Class 11 Maths

There are 2 papers in Maths –

- a. Theory paper
- b. Practical and project

Paper I (Theory)– This will be a theory paper of 80 marks and 3 hours of time duration.

PAPER I (THEORY) – 80 Marks

- (i) The syllabus is divided into **three** sections A, B and C.
- (ii) Section A is compulsory for all candidates. Candidates will have a choice of attempting questions from **EITHER** Section B **OR** Section C.
- (iii) There will be one paper of three hours duration of 80 marks.
- (iv) **Section A (65 Marks)**: Candidates will be required to attempt all questions. The internal choice will be provided in two questions of two marks, two questions of four marks and two questions of six marks each.
- (v) **Section B/ Section C (15 Marks)**: Candidates will be required to attempt all questions **EITHER** from Section B or Section C. Internal choice will be provided in one question of two marks and one question of four marks.

DISTRIBUTION OF MARKS FOR THE THEORY PAPER

| S.No. | UNIT | TOTAL WEIGHTAGE |
|----------------------------|--|-----------------|
| SECTION A: 65 Marks | | |
| 1. | Sets and Functions | 20 Marks |
| 2. | Algebra | 24 Marks |
| 3. | Coordinate Geometry | 8 Marks |
| 4. | Calculus | 6 Marks |
| 5. | Statistics & Probability | 7 Marks |
| SECTION B: 15 marks | | |
| 6. | Conic Section | 7 Marks |
| 7. | Introduction to Three-Dimensional Geometry | 5 Marks |
| 8. | Mathematical Reasoning | 3 Marks |
| OR | | |
| SECTION C: 15 Marks | | |
| 9. | Statistics | 5 Marks |
| 10. | Correlation Analysis | 4 Marks |
| 11. | Index Numbers & Moving Averages | 6 Marks |
| TOTAL | | 80 Marks |

PAPER-II (PROJECT) – 20 Marks

Candidates will be expected to have completed two projects, one from Section A and one from either Section B or Section C. Mark allocation for each Project [10 marks]:

| | |
|--------------------------------|-----------------|
| Overall format | 1 mark |
| Content | 4 marks |
| Findings | 2 marks |
| Viva-voce based on the Project | 3 marks |
| Total | 10 marks |