



MOUNT CARMEL SCHOOL, CHANDIGARH
Syllabus, Term-2, Session 2026-27
Grade XI, (Science)

ENGLISH (301)

- October:** **Hornbill** - Discovering Tut: The Saga Continues
Childhood (Poem)
Grammar Section - Clauses
Snapshots - Mother's Day (Play)
- November:** **Hornbill**- The Adventure
Silk Road (Prose)
Grammar Section – Transformation of Sentences
- December:** **Hornbill**- Father to Son
Snapshots -The Tale of Melon City

Section A – Reading Skills (26 Marks)

I Reading Comprehension through Unseen Passages (10+8=18 Marks)

1. One Unseen Passage to Assess Comprehension, Interpretation, Analysis, Inference and Vocabulary. The passage may be factual, descriptive or literary.
2. One Unseen **Case-Based Factual** Passage with verbal/visual inputs like statistical data, charts etc. to assess Comprehension, Interpretation, Analysis, Inference and Evaluation.

Note: The combined word limit for both the passages will be 600-750. (Multiple Choice Questions / Objective Type Questions will be asked).

3. Note Making and Summarization based on a passage of approximately 200-250 words.
 - i. Note Making: **5 Marks**
 - ii. Summary (up to 50 words): **3 Marks**

Section B –Grammar and Creative Writing Skills (23 Marks)

II Grammar 7 Marks

4. Questions on Gap filling (Tenses, Clauses)
5. Questions on Re-ordering/transformation of Sentences

III Creative Writing Skills (16 Marks)

6. Short Writing Task – Classified Advertisements, up to 50 words. One out of the two given Questions to be answered (**3 Marks**: Format : 1 / Content : 1 / Expression : 1)
7. Short Writing Task –Poster up to 50 words. One out of the two given questions to be answered. (**3 marks**: Format : 1 / Content : 1 / Expression : 1)
8. Long Writing Task: Speech in 120-150 Words Based On Verbal / Visual Cues related to contemporary / Age-Appropriate Topic. One out of the two given Questions to be answered.
(**5 Marks**: Format: 1 / Content: 2 / Expression: 2)
9. Long Writing Task: Debate based on visual/verbal inputs in 120-150 words, the matically related to contemporary, topical issues. One out of the two given Questions to be answered.
(**5 Marks**: Format: 1 / Content: 2 / Expression: 2)

Section C – 31 Marks

Literature Text Book and Supplementary Reading Text

This Section will have variety of Assessment items including Multiple Choice Questions, Objective Type Questions, Short Answer Type Questions and Long Answer Type Questions to assess Comprehension, Interpretation, Analysis, Evaluation and Extrapolation beyond the Text.

10. One Poetry extract out of two, from the book **Hornbill**, to assess Comprehension, Interpretation, Analysis, Inference and Appreciation. (3x1=3 Marks)
11. One Prose Extract out of two, from the book **Hornbill**, to assess Comprehension, Interpretation, Analysis, Evaluation and Appreciation. (3x1=3 Marks)
12. One Prose Extract out of two, from the book **Snapshots**, to assess comprehension, interpretation, analysis, inference and Appreciation. (4x1=4 Marks)
13. Two Short Answer Type Questions (one from Prose and one from Poetry, from the book **Hornbill**), out of four, to be answered in 40-50 words. Questions should elicit inferential responses through critical thinking. (3x2=6 Marks)
14. One Short Answer Type Question, from the book **Snapshots**, to be answered in 40- 50 words. Questions should elicit inferential responses through critical thinking. One out of two questions to be done. (3x1=3 Marks)
15. One Long answer type question, from **Prose/Poetry of Hornbill**, to be answered in 120-150 words. Questions can be based on incident / theme / passage / extract / event, as reference points to assess extrapolation beyond and across the text. The Question will elicit analytical and evaluative response from the student. Any one out of two questions to be done. (1x6=6 Marks)
16. One Long Answer Type Question, based on the chapters from the book **Snapshots**, to be answered in 120-150 words, to assess Global Comprehension and extrapolation beyond the text. Questions to provide analytical and evaluative responses, using incidents, events, themes, as reference points. Any one out of two questions to be done. (1x6=6 Marks)

INTERNAL ASSESSMENT

Assessment of Listening Skills - 05 marks.
Assessment of Speaking Skills – 05 Marks
Project Work - 10 Marks

UNIT TEST MARKING SCHEME

Section – A Reading 05 Marks
Section – B Grammar & Writing 02 Marks
04 Marks
Section - C Literature 09 Marks

Note: * Subject to changes as per CBSE instructions.

*** All Chapters and Writing Compositions done in Term I will also be included for the Final Examination.**

PHYSICS (042)

October Ch-6 System of Particles and Rotational Motion
Ch-8 Mechanical Properties of Solids
Ch-9 Mechanical Properties of Fluids
Ch-10 Thermal Properties of Matter

November Ch-11 Thermodynamics
Ch-12 Kinetic Theory
Ch-13 Oscillations
Ch-14 Waves

Practical: Term 2 Practical related to the theory will be covered side by side.

Format of Question Paper for Unit Test: 20 Marks.

There are 07 Questions in the Question Paper.

Section	Type of Questions	No. Of Questions	Marks for each	Total Marks
A	Very Short Answer Questions	3	2	6
B	Short Answer Questions	3	3	9
C	Long Answer Questions	1	5	5
	Total			20

Final Examination: 100 Marks (70+30)**Note: All Chapters done in Term-I and Term-2 will be included for the Final Examination.**

Theory Exam: 70 Marks

Practical Exam: 30 Marks

Format of Question Paper for Theory Examination: 70 Marks.

There are 33 questions in the question paper with internal choice.

Time: 3 hours

Section	Type of Questions	No. Of Questions	Marks for each	Total Marks
A	Objective Questions (12 Multiple Choice Questions + 4 Assertion and Reasoning)	16	1	16
B	Very Short Answer Questions	5	2	10
C	Short Answer Questions	7	3	21
D	Case-Based Questions	2	4	8
E	Long Answer Questions	3	5	15
	Total			70

Format of Practical Examination: 30 Marks.**Time: 3 hours**

Topic	Marks
Two experiments one from each section	7+7
Practical record (experiment and activities)	5
One activity from any section	3
Investigatory Project	3
Viva on experiments, activities and project	5
Total	30

Note: * Subject to changes as per CBSE instruction

BIOLOGY (044)**Theory**

UNIT 4 - Plant Physiology

11. Photosynthesis in Higher Plants

12. Respiration in Plants

13. Plant Growth and Development

UNIT 5 - Human Physiology

14. Breathing and Exchange of Gases

15. Body Fluids and Circulation

16. Excretory Products and their Elimination

17. Locomotion and Movement

18. Neural Control and Coordination

19. Chemical Coordination and Integration

Practicals**A: List of Experiments:**

1. Study of osmosis by potato osmometer.
2. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.
3. Separation of plant pigments through paper chromatography.
4. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.

B. Study and Observe the following (spotting):

1. Mitosis in onion root tip cells and animal cells (grasshopper) from permanent slides.

2. Human skeleton and different types of joints with the help of virtual images/models only.

Note: All the Chapters and Practicals covered in Term-I will also be included for the Final Examination.

Unit Test

TYPE OF QUESTION	No. of Qs	Marks for each Qs	Total Marks
Objective Based Items	2	1	2
Very Short Answer	2	2	4
Short Answer	3	3	9
Long Answer	1	5	5
Grand Total	8		20

Typology of Questions: Theory (70 Marks)

Competency Based Questions would be minimum 30% These can be in the form of Multiple Choice Questions, Case based Questions, Source based Integrated Questions or any other types. • Objective Type Questions will be 20% • Remaining 50% Short Answer/Long Answer Questions

MARKING SCHEME FOR PRACTICAL EXAM (30 Marks)

Evaluation Scheme	Marks
One Major Experiment Part A	5 Marks
One Minor Experiment Part A	4 Marks
Slide Preparation Part A	5 Marks
Spotting Part B	7 Marks
Practical Record + Viva Voce	4 Marks
Project Record + Viva Voce	5 Marks
Total	30 Marks

MARKING SCHEME FOR THEORY (70 Marks)

Section–A	16 (MCQ and AR Type Questions)	1 Mark each	16 Marks
Section–B	5 Very Short Answer Type Questions	2 Marks each	10 Marks
Section–C	7 Short Answer Type Questions	3 Marks each	21 Marks
Section–D	2 Case-based Questions	4 Marks each	8 Marks
Section–E	3 Long Answer Type Questions	5 Marks each	15 Marks
Total			70 Marks

CHEMISTRY (043)

Theory:(Maximum Marks:70)

Theory Work:(Maximum Marks:70)

Month	Unit No.	Chapters
October	5	Chemical Thermodynamics
	6	Equilibrium
November	7	Redox Reactions
	8	Organic Chemistry: Some Basic Principles and Techniques
	9	Hydrocarbons
December & January		Revision Work

Practical Work:(Maximum Marks:30)

* Salt Analysis: Acidic and Basic Radicals

*Content Based Experiment: Preparation of Crystals

Format of Question Paper for Unit Test : 20 Marks

There are 07 questions in the question paper.

- (i) SECTION -A consists of 3 Very Short Answer Questions carrying 2 marks each.
- (ii) SECTION -B consists of 3 Short Answer Questions carrying 3 marks each.
- (iii) SECTION -C consists of 1 Long Answer Questions carrying 5 marks.

Format of Question Paper for Examination : 70 Marks

There are 33 questions in the question paper with internal choice.

- (i) SECTION -A consists of 16 Objective Questions Carrying 1 mark each.
- (ii) SECTION -B consists of 5 Very Short Answer Questions carrying 2 marks each.
- (iii) SECTION -C consists of 7 Short Answer Questions carrying 3 marks each.
- (iv) SECTION -D consists of 2 Case-Based Questions carrying 4 marks each.
- (v) SECTION -E consists of 3 Long Answer Questions carrying 5 marks each.

Practical

	Marks
Volumetric Analysis	8
Salt Analysis	8
Content Based Experiment	6
Project Work	4
Class Record & Viva	4
Total	30

***All chapters done in Term I will also be included for the Final Examination.**

Note: Subject to changes as per CBSE instructions.

MATHS (041)

MONTH	CHAPTER NO.	TOPIC
October	10	Conic Sections
	11	Introduction to Three Dimensional Geometry
November	12	Limits & Derivatives
	13	Statistics
December	14	Probability

Unit Test (20 marks)

S. No	Type No.	Total Marks
1	Very Short Answer Type Questions	5 x 1 = 5 marks
2	Short Answer Type Questions	5 x 3 = 15 marks

Marking Scheme of Final Examination (80 Marks)

Section	Type	No. Of Questions	Marks Per Question	Total Marks
A	Multiple Choice Questions	20	20	20
B	Very Short Answer Type	5	2	10
C	Short Answer Type	6	3	18
D	Long Answer Type	4	5	20
E	Case Study	3	4	12

***All chapters done in Term I will also be included for the Final Examination.**

INTERNAL ASSESSMENT**20 Marks**

Periodic Tests (Best 2 out of 3 tests conducted)

10 Marks

Mathematics Activities

10 Marks

Including Lab Manual & Practical}

The following topics are included in the syllabus but will be assessed only formatively to reinforce understanding without adding to summative assessments. This reduces academic stress while ensuring meaningful learning. Schools can integrate these with existing chapters as they align well. Relevant NCERT textual material is enclosed for reference.

S.NO.	Content
	Unit-I: Sets and Functions
1.	Sets
	Practical problems on Union and Intersection of two sets.
2.	Relations and Functions
	Composition of Functions
3.	Trigonometric Functions
	General solution of trigonometric equations of the type $\sin y = \sin a$, $\cos y = \cos a$ and $\tan y = \tan a$.
	Unit-II: Algebra
1.	Principle of Mathematical Induction
	Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.
2.	Complex Numbers and Quadratic Equations
	Polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system.
3.	Linear Inequalities
	Graphical solution of linear inequalities in two variables. Graphical method of finding a solution of system of linear inequalities in two variables.
4.	Permutation and Combination

	The fundamental principle of counting. Factorial n. (n!) Permutations and combinations, derivation of Formulae for nPr and nCr and their connections, simple applications.
5.	Binomial Theorem
	General and middle term in binomial expansion.
6.	Sequence and series
	Formulae for the following special sums $\sum_{k=1}^n k, \sum_{k=1}^n k^2, \sum_{k=1}^n k^3$
Unit-III: Coordinate Geometry	
1.	Straight Lines
	Normal form. General equation of a line.
2.	Introduction to Three-dimensional Geometry
	Section formula.
Unit-IV: Calculus	
1.	Limits and Derivatives
	Derivatives of composite functions (Chain rule).
Unit-V Statistics and Probability	
1.	Probability
	Random experiments; outcomes ,sample space (set representation)

PHYSICAL EDUCATION (048)

Theory : 70Marks

Practical : 30 Marks

October : Unit-6 Test, Measurement & Evaluation

Unit-7- Fundamentals of Anatomy , Physiology in Sports

November Unit 8: Fundamentals of Kinesiology and Biomechanics in Sports

Unit 9: Psychology and Sports

December- Unit 10: Training and in Sports

January - Revision for the Examination

Unit Test Marks Distribution (M.M.20)

One-mark questions : 1x6=6

Very short Answer Questions : 2x3=6

Short Answer question : 3x1=3

Long Answer questions : 5x1=5

Marking Scheme for Final Examination :

1) The question paper consists of 5 sections and 37 Questions.

2) Section A consists of questions 1-18 carrying 1 mark each and is multiple choice questions. All questions are compulsory.

3) Section B consists of questions 19-24 carrying 2 marks each.

4) Sections C consist of questions 25-30 carrying 3 marks each.

5) Section D consists of questions 31-33 carrying 4 marks each.

6) Section E consists of questions 34-37 carrying 5 marks each.

*** All chapters done in Term I will also be included for the Final Examination.**

INFORMATICS PRACTICES (065)

Marks Distribution :-

Theory : 70 Marks Practical : 30 Marks
Total Marks :- 100 Marks

October Unit 4 – Introduction to Emerging Trends
November Unit 3 – Database Concept and Structured Query Language
December Revision for Final Examination
January Revision Exams and Final Practical and Viva
February Final Examination
March Result

****Syllabus Covered in Term-I will also be a part of Annual Examination to be held in February'2027.****

Practical Marks Distribution

S.No.	Unit Name	Marks
1	Problem solving using Python programming language	11
3	Creating Database using MySQL and performing Queries	7
4	Practical file (minimum of 14 python programs, and 14 SQL queries)	7
5	Viva-Voce	5
	Total	30

Marks Distribution – Theory Paper (70 Marks)

Unit 1 - 10 Marks
Unit 2 - 25 Marks
Unit 3 - 30 Marks
Unit 4 - 5 Marks

Marks Distribution – Theory Paper (70 Marks)

Section-A 1 to 21 (Multiple Choice Questions)	---	1 x 21 = 21 Marks
Section-B 22 to 28 Short Answer Type Questions	---	2 x 7 = 14 Marks
Section-C 29 to 32 Short Answer Type Questions	---	3 x 4 = 12 Marks
Section-D 33 and 34 (Case Study)	---	4 x 2 = 8 Marks
Section-E 35 to 37 Long Answer Type Questions	---	5 x 3 = 15 Marks
Total	---	70 Marks

ARTIFICIAL INTELLIGENCE (843)

Marks Distribution:-

Theory : 50 Marks
Practical : 50 Marks
Total Marks : 100 Marks

October

Part B- Unit-5 Data Literacy – Data Collection to Data Analysis
Unit-6 Machine Learning Algorithms

November

Unit-7 Leveraging Linguistics and Computer Science
Unit-8 AI Ethics and Values

December Revision for Final Examination

February Revision for the Final Exams

****Syllabus Covered in Term-I will also be a part of Annual Examination to be held in February'2027.****

Practical Marks Distribution

IBM Skills Build Certification/any other industry certification	5
Capstone Project	12
Bootcamps/ Internship/other startups	7
Practical File	10
Written Exam (based on practical file)	10
Viva Voce (based on practical file)	6
TOTAL	50

Distribution of Marks for Written Examination: Theory Paper – (50 marks) :**Section- A Objective type question- 24 Marks**

Q 1 to Q 5- Short Answer Type Questions. Each question has 5 sub parts in which internal choice is given.

Section- B Subjective type questions- 26 Marks

- | | |
|---|-----------------|
| 1. Short Answer Type Questions (Part A) : | 2x3=6 Marks |
| 2. Short Answer Type Questions | 2x4=8 Marks |
| 3. Long Answer Type Questions | 4x3=12 Marks |
| Total Section A+B= | 50 Marks |

PSYCHOLOGY (037)**Theory Work:**

Month	Unit No.	Chapter
October	05	Learning
	06	Human Memory
November	07	Thinking
	08	Motivation and Emotion

Practical : (Projects, Experiments, Small Studies, etc.) 30 marks .The students shall be required to undertake one project and conduct two experiments. The project would involve the use of different methods of enquiry like observation, survey, interview, questionnaire, small studies related to the topics covered in the course (e.g. Human development, Learning, Memory, Motivation, Perception, Attention and Thinking). Experiments could focus on cause-and-effect relationship.)

NOTE : Subject to changes as per CBSE instructions.

Format of Question Paper for Unit Test (Class-XI) : 20 Marks

There are 12 Questions in the Question Paper.

- (i)**Section A:** 5 Questions Very Short Answer Type Questions (carrying 1 mark each)
(ii)**Section B:** 5 Questions Short Answer Type Question (carrying 2 marks each)
(iii)**Section C:** 1 Question Long Answer Type with a choice (carrying 5 marks)

Format of Question Paper for Final Examination (Class-XI) : 70 Marks

SECTION A : Question Nos.1-14 in Section A carry 1 mark each. You are expected to answer them as directed.

SECTION B : Question Nos. 15-19 in Section B are Very Short Answer Type-I Questions carrying 2 marks each. The answer to each question should not exceed 30 words.

SECTION C : Question Nos. 20-23 in Section C are Short Answer Type-II Questions carrying 3 marks each. The answer to each question should not exceed 60 words.

SECTION D : Question Nos. 24 - 27 in Section D are Long Answer Type-I Questions carrying 4 marks each. The answer to each question should not exceed 120 words.

SECTION E : Question Nos. 28-29 in Section E are Long Answer Type-II Questions carrying 6 marks each. The answer to each question should not exceed 200 words.

SECTION F : Question Nos.30–33 in Section F are based on two cases given. The answer to each one- mark question should not exceed 20 words. The answer to each two-mark question should not exceed 30 words.

***This syllabus is subject to changes as per the C.B.S.E instructions and guidelines.**

***All chapters done in Term I will also be included for the Final Examination.**

Monthly Theme for the Display Boards- Senior Wing (Grades IX – XII)
(Session 2026-27)

Month	Theme
April	Save Environment
May	Discipline and Responsibility
July	Road Safety and Traffic Rules
August	Unity in Diversity
September	Inspirational Quotes
October	Great Indian Scientists and Innovators
November	Careers of the Future
December	Christmas and The Joy of Giving
January, 2027	Inspiring stories of Young Achievers
February, 2027	Importance of Education



Unit Tests' Schedule (Term-II, 2026-27) (Grade XI)

Date	STREAM		
	SCIENCE	COMMERCE	HUMANITIES
UNIT TEST – I1			
22-10-2026	ARTIFICIAL INTELLIGENCE	ARTIFICIAL INTELLIGENCE	ARTIFICIAL INTELLIGENCE
28-10-2026	PSYCHOLOGY	PSYCHOLOGY	PSYCHOLOGY
02-11-2026	ENGLISH	ENGLISH	ENGLISH
05-11-2026	PHYSICAL EDUCATION	PHYSICAL EDUCATION	PHYSICAL EDUCATION
12-11-2026	BIOLOGY	BUSINESS STUDIES	-----
16-11-2026	MATHS	MATHS	MATHS / FOOD, NUTRITION & DIETETICS
19-11-2026	I.P.	I.P.	I.P. / POLITICAL SCIENCE
23-11-2026	PHYSICS	ECONOMICS	ECONOMICS / GEOGRAPHY
26-11-2026	-----	-----	HISTORY / PAINTING / LEGAL STUDIES
30-11-2026	CHEMISTRY	ACCOUNTANCY	HOME SCIENCE