



MOUNT CARMEL SCHOOL, CHANDIGARH

Syllabus Session 2026-27

Grade : XII Science (Term-2)

ENGLISH (301)

1. Flamingo:

(Prose)

- The Last Lesson
- Lost Spring
- Deep Water
- The Rattrap
- Indigo
- Poets and Pancakes
- The Interview
- Going Places

(Poetry)

- My Mother at Sixty-Six
- Keeping Quiet
- A Thing of Beauty
- A Roadside Stand
- Aunt Jennifer's Tigers

2. Vistas:

- The Third Level
- The Tiger King
- Journey to the end of the Earth
- The Enemy
- On the Face of It
- Memories of Childhood
 - The Cutting of My Long Hair
 - We Too are Human Beings

MARKING SCHEME

Section - A Reading Skills

I. Reading Comprehension through Unseen Passage (22 Marks)

1. One Unseen Passage to assess Comprehension, Interpretation and Inference.

Vocabulary and Inference of meaning will also be assessed. The passage may be Factual, Descriptive or Literary. (12x1=12Marks)

2. One Unseen Case-Based passage with verbal/visual inputs like statistical data, charts etc. (10x1=10 Marks)

Note: The combined word limit for both the passages will be 700-750 words. Multiple Choice Questions / Objective Type Questions will be asked.

Section – B (18 Marks)

II. Creative Writing Skills:

The section has Short and Long Writing Tasks.

3. Notice up to 50 words. One out of the two given questions to be answered. **(4 Marks)**.
4. Formal/Informal Invitation and Reply up to 50 words. One out of the two given questions to be answered. **(4 Marks)**.
5. Letters based on verbal/visual input, to be answered in approximately 120-150

words. Lettertypes include application for a job with bio data or resume. Letters to the Editor (giving suggestions or opinion on issues of public interest). One out of the two given questions to be answered .

(5 Marks).

6. Article/ Report Writing, Descriptive and Analytical in nature, based on verbal inputs, to be answered in 120-150 words. One out of the two given questions to be answered. (5 Marks).

III. Section - C (40 Marks)

Literature Text Book and Supplementary Reading Text- 40 Marks

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, Analysis, Interpretation and Extrapolation beyond the text.

Reference to the Context

7. One Poetry Extract out of two from the book **Flamingo** to assess comprehension, interpretation, analysis and appreciation. (6x1=6 Marks)

8. One Prose Extract out of two from the book **Vistas** to assess comprehension, interpretation, analysis and appreciation. (4x1=4 Marks)

9. One Prose Extract out of two from the book **Flamingo** to assess comprehension, interpretation and analysis. (6x1=6 Marks)

10. Short Answer Type Question (**from Prose and Poetry from the book Flamingo**), to be answered in 40-50 words. Questions should elicit inferential responses through critical thinking. Five Questions out of the six given are to be answered.

(5x2=10 Marks)

11. Short Answer Type Question, from **Prose (Vistas)**, to be answered in 40- 50 words. Questions should elicit inferential responses through critical thinking. Any 2 out of 3 questions to be done. (2x2=4 Marks)

12. One Long Answer Type Question, from **Prose/Poetry (Flamingo)**, 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 student. Any 1 out of 2 questions to be done. (1x5=5 Marks)

13. One Long Answer Type Question, based on the Chapters from the book **Vistas**, to be answered in 120-150 words to assess global comprehension and extrapolation beyond the text. Questions to provide evaluative and analytical responses using incidents, events, themes as reference points. Any 1 out of 2 questions to be done. (1x5=5 Marks)

INTERNAL ASSESSMENT:

Assessment of Listening Skills - 05 marks.

Assessment of Speaking Skills – 05 Marks

Project Work- 10 Marks

UNIT TEST 20 MARKS

Reading	7 Marks
Writing	4 Marks
Literature	9 Marks

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

MATHS (041)

MONTH	CHAPTER	TOPIC
October	8	Applications of Integrals
	9	Differential Equations
November	10	Vector Algebra
	11	Three Dimensional Geometry
	12	Linear Programming
	13	Probability

Format and Marks Distribution:

Unit Test: 20 marks

Final Examination : 80 marks

Unit Test(20 marks)

S. No	Type	Total Marks
1	Very Short Answer Type Question	5 x 1= 5 marks
2	Short Answer Type Question	5x 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 Question	5	2	10
C	Short Answer Type Question	6	3	18
D	Long Answer Type Question	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 (Average of Best 2 out of 3 Tests conducted) 10 Marks
 Mathematics Activities 10 Marks
 Including Lab Manual & Practical}

CHEMISTRY(043)

Theory Work:(Maximum Marks:70)

Month	Unit No	Chapter
October	6	Haloalkanes and Haloarenes
	7	Alcohols, Phenols and Ethers
	8	Aldehydes, Ketones and Carboxylic Acids
November	9	Amines
	10	Bio-molecules

December Revision work

***Salt Analysis:**

Acidic and Basic Radicals

***Content Based Experiment:**

Tests of Functional Groups in organic compounds

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

Evaluation Scheme for Examination	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.

BIOLOGY (044)

Theory

1. Chapter-8: Human Health and Diseases.
2. Chapter-9: Microbes in Human Welfare.
3. Chapter-13: Organisms and Populations.
4. Chapter-14: Ecosystem.
5. Chapter-15: Biodiversity and its Conservation.

Practicals

A. List of Experiments

1. Study the plant population density by quadrat method.
2. Study the plant population frequency by quadrat method.
3. Prepare a temporary mount of onion root tip to study mitosis.

B. Study and observe the following (Spotting):

1. Meiosis in onion bud cell or grasshopper testis through permanent slides.
2. Common disease causing organisms like *Ascaris*, *Entamoeba*, *Plasmodium*, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.
3. Models specimen showing symbiotic association in root modules of leguminous plants, *Cuscuta* on host, lichens.

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 Questions	Marks for each Question	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

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 (Multiple Choice Questions 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

PHYSICS (042)**October**

Ch-8 Electromagnetic Waves
 Ch-9 Ray Optics and Optical Instruments
 Ch-10 Wave Optics
 Ch-11 Dual Nature of Radiations and Matter

November

Ch-12 Atoms
 Ch-13 Nuclei
 Ch-14 Semi-conductor Electronics: Materials, Devices and Simple circuits

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 U.T. Question Paper.

Time: 45 minutes

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.

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

INFORMATICS PRACTICES (065)

Marks Distribution :-

Theory : 70 Marks

Practical : 30 Marks

Total :- 100 Marks

October Unit 2 –Review of Database Concepts and SQL

Database Query using SQL

Math functions: POWER (), ROUND (), MOD (). Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT

()), INSTR (), LTRIM (), RTRIM (), TRIM (). Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME (). Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). Querying and manipulating data using Group by, Having, Order by, Working with two tables using equi-Join

November Unit 3-- Introduction to Computer Networks

Introduction to networks, Types of network: PAN, LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway. Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.

December Revision and Pre-Board Examination

January Revision for Board Exams

February Final Practicals and CBSE Board Exams

March Final Examination

**** Syllabus covered in Term-1 will be also included in the Annual Examination of CBSE ****

Practical Marks Distribution

S. No.	Unit Name	Marks
1	Programs using Pandas and Matplotlib	8
2	SQL Queries	7
3	Practical file (minimum of 15 programs based on Pandas, 4 based on Matplotlib and 15 SQL queries must be included)	5
4	Project Work (using concepts learned in class XI and XII)	5
5	Viva-Voce	5
	TOTAL	30

Final Examination : (Theory Paper)

Unit 1 (Data Handling using Pandas-I and Data Visualization)	25 Marks
Unit 2 Database Query using SQL	25 Marks
Unit 3 Introduction to Computer Networks	10 Marks
Unit 4 Societal Impact	10 Marks

Marks Distribution – Theory Paper (70 Marks)

Q1 to Q21 Multiple Choice Questions	---	1x21 = 21 Marks
Q22 to Q28 Short Answer Type Questions	---	2x7 = 14 Marks
Q29 to Q32 Short Answer Type Questions	---	3x4 = 12 Marks
Q33 and Q34 Case study	---	4x2 = 8 Marks
Q35 to Q37 Long Answer Type Questions	---	5x3 = 15 Marks
Total	---	70 Marks

PHYSICAL EDUCATION (048)

Theory : 70 Marks

Practical : 30 Marks

October : Unit 8: Fundamentals of Kinesiology, Biomechanics and Sports
Chapter 6 Test and Measurement in Sports
Chapter 7 Physiology and Injuries in Sports

November: Unit 9: Psychology and Sports
Unit 10: Training and in Sports

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

Annual Marking Scheme –

- 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.**

PSYCHOLOGY (037)

Month	Unit No.	Chapter
October	04	Psychological Disorders
	05	Therapeutic Approaches
November	06	Attitude and Social Cognition
	07	Social Influence and Group Process
December :		Pre-Board 1
January :		Pre-Board 2 (Full Syllabus)

February & March : Revision & Final (Board) Examination

Practical: A. Development of case profile: Using appropriate methods like interview, observation & psychological tests.

B. Test administration: Students are required to administer and interpret five psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, etc.

*Eysenck's Personality Questionnaire

NOTE : Subject to changes as per CBSE instructions.

UNIT TEST 20 MARKS

One Mark Questions	1x5=5 Marks
Two Marks Questions	2x5=10 Marks
Five Marks Questions	5x1=5 Marks

Practical (30 marks):

A. Test Administration:

Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, etc.

B. In Practical examination, the student will be required to administer and interpret two Psychological Tests.

Distribution of Marks:

- Practical File: 10 Marks

- Viva Voce (Practical): 05 Marks

- Two practicals: 15 Marks*

*(5 Marks for conduct of practical and 10 Marks for report writing)

Unit Test – 20 Marks

Format of Question Paper for Unit Test: 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: 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.

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

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

ARTIFICIAL INTELLIGENCE (843)

Marks Distribution:-

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

October **Part A:-** Unit 4- Entrepreneurial Skills- IV
Unit 5- Green Skills-IV
Unit 6- Understanding Neural Networks

November **Part B** Unit 7- Generative A.I.
Unit 8- Data Storytelling

December & January Project Building & Preparation of Practical file.

Practical Marks Distribution:

S.No.	Unit Name	Marks
1.	- Capstone Project + Project Documentation - Capstone Project =15 Marks - Project Documentation = 6 Marks - Video= 4 Marks	25
	Practical File	10
	Lab Test (Python and Orange Data Mining)	10
	Viva Voce (based on Capstone Project + Practical File)	5
	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 |

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

Monthly Themes 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



MOUNT CARMEL SCHOOL, CHANDIGARH

Unit Tests' Schedule (Term-II, 2026-27) [Class XII]

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