



MOUNT CARMEL SCHOOL, CHANDIGARH
Syllabus (Monthly Basis) Session 2026-27
Subject : Science XII (Term-1)

ENGLISH: (301)

- April** Flamingo - F-1-The last Lesson
F-2 – Lost Spring
P-1-My Mother at Sixty Six
Writing- Notice
- May** Flamingo - F-3 – Deep Water
Vistas - Ch.-1- The Third Level
Writing - Letter to The Editor
- July** Flamingo- F-4 The Rattrap
F-5 - Indigo
P-2-Keeping Quiet
Vistas- Ch-2 The Tiger King

Writing- Article
- August** Flamingo- F-6- Poets and Pancakes
P-3 - A Thing of Beauty
Vistas - Ch.-3- Journey to the End of the Earth
Ch.-4- The Enemy
Writing - Invitations- Formal and Informal with their replies
- September** Flamingo - P-4 - A Roadside Stand
Vistas - Ch.-4 - The Enemy (completion)
Writing - Job Application with Resume, Report Writing
Revision for the Terminal Examination
Revision and Examination

UNIT TEST 20 MARKS

Reading	7 Marks
Writing	4 Marks
Literature	9 Marks

INTERNAL ASSESSMENT

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

SECTION A READING SKILLS (22 Marks)

Reading Comprehension through Unseen Passage

- I. 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=12 Marks)
- II. 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)

Creative Writing Skills.

The section has Short and Long writing tasks.

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

SECTION C (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

- VII. One Poetry extract out of two from the book **Flamingo** to assess comprehension, interpretation, analysis and appreciation. (6x1=6 Marks)
- VIII. One Prose extract out of two from the book **Vistas** to assess comprehension, interpretation, analysis and appreciation. (4x1=4 Marks)
- IX. One prose extract out of two from the book **Flamingo** to assess comprehension, interpretation and analysis. (6x1=6 Marks)
- X. 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)
- XI. Short Answer Type Question, from **Prose (Vistas)**, to be answered in 40- 50 words. Questions should elicit inferential responses through critical thinking. Any two out of three questions to be done. (2x2=4 Marks)
- XII. 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)

XIII. 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 one out of two questions to be done. **(1x5=5 Marks)**

Note: * Subject to changes as per CBSE instructions.

MATHS: (041)

Theory – 80 marks

Practical- 20 marks

MONTH	CHAPTER	TOPIC
April	3.	Matrices
	4.	Determinants
	2.	Inverse Trigonometric Functions
May	5.	Continuity and Differentiability
	6.	Applications of Derivatives
	1.	Relations & Functions
July	7.	Integrals
	8.	Applications of Integrals
August	12.	Linear Programming
September		Revision For Term I Exams.

Mathematical Activities –

(a) **Lab Manual : 10 Activities**

(b) **Assessment of the activities**

(c) **Viva- voce**

Maths - Format and Marks Distribution:

Unit Test: 20 marks

Terminal Exam : 80 marks

INTERNAL ASSESSMENT	20 MARKS
Periodic Tests (Best 2 out of 3 tests conducted)	10 Marks
Mathematics Activities	10 Marks

Marking Scheme of Terminal Examination (80 Marks)

Section	Type	No. of Questions	Marks Per Question	Total Marks
A	MULTIPLE CHOICE QUESTIONS & ASSERTION-REASONING	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

CHEMISTRY : (043)**Theory: 70 Marks Practical: 30 Marks**

Month	Unit No	Chapter
April	01	Solution
May	02	Electrochemistry
July	03 04	Chemical Kinetics d- and f- Block Elements
August	05	Co-ordination Compounds
September		Revision work

Practical Work:***Volumetric Analysis:**Titration of KMnO_4 with Mohr's SaltTitration of KMnO_4 with Oxalic acid***Content Based Experiment:**

Preparation of Crystals of Potash Alum and Mohr 'salt

Format of Question Paper for Unit Test : 20 Marks**There are 07 questions in the question paper.**

SECTION	TYPE OF QUESTIONS	No. OF QUESTION	MARK FOR EACH	TOTAL MARKS
A	Very Short Answer Type Questions	3	2	6
B	Short Answer Type Questions	3	3	9
C	Long Answer Type Questions	1	5	5

Format of Question Paper for Terminal Examination : 70 Marks**There are 33 questions in the question paper with internal choice.**

SECTION	TYPE OF QUESTIONS	No. OF QUESTION	MARK FOR EACH	TOTAL MARKS
A	MCQs & Assertion-Reasoning Type Questions	12 & 4	1	16
B	Very Short Answer Type Questions	5	2	10
C	Short Answer Type Questions	7	3	21
D	Case Study Based Questions	2	4	8
E	Long Answer Type Questions	3	5	15

Practical: 30 Marks

Evaluation Scheme for Examination	Marks
Volumetric Analysis	10
Project Work	10
Class Record & Viva	10
Total	30

Note: Subject to changes as per CBSE instructions.

BIOLOGY : (044)

April

1. Chapter-2: Sexual Reproduction in Flowering Plants
2. Chapter-3: Human Reproduction

May

3. Chapter-4: Reproductive Health
4. Chapter-5: Principles of Inheritance and Variation

July

5. Chapter-6: Molecular Basis of Inheritance
6. Chapter-7: Evolution

August

7. Chapter-11: Biotechnology - Principles and Processes
8. Chapter-12: Biotechnology and its Applications

PRACTICALS (Max. Marks: 30)

Evaluation Scheme

	Marks
1. One Major Experiment (Part A)	5 Marks
2. One Minor Experiment (Part A)	4 Marks
3. Slide Preparation (Part A)	5 Marks
4. Spotting (Part B)	7 Marks
5. Practical Record + Viva Voce	4 Marks
6. Project Record + Viva Voce	5 Marks

A. List of Experiments

1. Prepare a temporary mount to observe pollen germination.
2. Prepare a temporary mount of onion root tip to study mitosis.
3. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.

B. Study and observe the following (Spotting):

1. Flowers adapted to pollination by different agencies (wind, insects and birds).
2. Pollen germination on stigma through a permanent slide or scanning electron micrograph.
3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
4. Meiosis in onion bud cell or grasshopper testis through permanent slides.
5. T.S. of blastula through permanent slides (Mammalian).
6. Mendelian inheritance using seeds of different colour/sizes of any plant.
7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.
8. Controlled pollination - emasculation, tagging and bagging.

QUESTION PAPER BLUE PRINT (MAX. MARKS: 70)

Typology	Marks
Objective Type (MCQ, AR)	16
Short Answer Type (2 Marks)	10
Short Answer Type (3 Marks)	21
Case based Type (4 Marks)	8
Long Answer Type (5 marks)	15

*Any changes in the syllabus/pattern will be intimated to the students in due time.

PHYSICS: (042)

April Ch-1 Electric Charges and Fields
Ch-2 Electrostatic Potential and Capacitance

May Ch-3 Current Electricity
Ch-4 Moving Charges and Magnetism

July Ch-5 Magnetism and Matter
Ch-6 Electromagnetic Induction

August Ch-7 Alternating Current
Ch-8 Electromagnetic Waves

Practical: Term 1 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

Terminal Examination: 100 Marks (70+30)

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.

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 Marks :- 100 Marks

April **Unit 4 – Lesson 6 Societal Impacts**
May **Unit 1-- Lesson-1 Data handling using Pandas**
June **Lesson-1 Data Handling using Pandas**
July **Summer Vacations**
August **Lesson -2 Data Visualization using Matplotlib**
September **Practicals and Revision of Term-I Syllabus**
Terminal Examination

Practical Marks Distribution

S.No.	Unit Name	Marks
1.	Programs using Pandas	8
2.	Programs using Pandas and Matplotlib	7
3.	Practical file (Minimum of 15 programs based on Pandas, 4 based on Matplotlib)	5
4.	Project Work (Using Concepts learned in class XI and XII) It can be done individually	5
5.	Viva-Voce	5
	Total	30

Terminal Examination

Lessons 1, 2, 6

Theory Paper - 70 Marks

Practical Paper - 30 Marks

Marks Distribution – Theory Paper (70 Marks)

Q1 to Q21 (Multiple Choice Questions) --- 1x21 = 21 Marks
Q22 to Q28 (Short Answer Questions) --- 2x 7 = 14 Marks
Q29 to Q32(Short Answer Questions) --- 3x4 = 12 Marks
Q33 and Q34 (Case Study) --- 4x2 = 8 Marks
Q35 to Q37 (Long Answer Questions) --- 5x3 = 15 Marks
Total --- 70 Marks

PHYSICAL EDUCATION : (048)

Theory: 70 Marks Practical: 30 Marks

April- Unit 1: Management of Sporting Events

May- Unit 2: Children & Women in Sports

Unit 3: YOGA as Preventive measures for Lifestyle Disease

July- Unit 4: Physical Education and Sports for Children with Special Needs

Unit 5: Sports & Nutrition

August - Unit 6: Test and Measurement in Sports.

September - Revision & Terminal Examination.

Marking Scheme: Physical Education

General Instructions:

1. The question paper consists of 5 sections and 37 questions.
2. Section A consists of question 1-18 carrying 1 mark each and is Multiple Choice Questions. All questions are compulsory.
3. Sections B consist of questions 19-24 carrying 2 marks each and are Very Short Answer Types and should not exceed 60-90 words. Attempt any 5.
4. Sections C consist of Question 25-30 carrying 3 marks each and are Short Answer Types and should not exceed 100-150 words. Attempt any 5.
5. Sections D consist of Question 31-33 carrying 4 marks each and are case studies. There is internal choice available.
6. Section E consists of Question 34-37 carrying 5 marks each and are Short Answer Types and should not exceed 200-300 words. Attempt any 3.

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

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

Unit Tests' Schedule (Term-I, 2026-27) [Grade XII]

Date	STREAM		
	SCIENCE	COMMERCE	HUMANITIES
UNIT TEST – 1			
07-05-2026	PHYSICAL EDUCATION	PHYSICAL EDUCATION	PHYSICAL EDUCATION
11-05-2026	MATHS	MATHS	MATHS
14-05-2026	I.P.	ACCOUNTANCY	I.P. / HISTORY
18-05-2026	PHYSICS	ECONOMICS	ECONOMICS / GEOGRAPHY
21-05-2026	ARTIFICIAL INTELLIGENCE	ARTIFICIAL INTELLIGENCE	ARTIFICIAL INTELLIGENCE
06-07-2026	CHEMISTRY	BUSINESS STUDIES	POLITICAL SCIENCE / HOME SCIENCE
09-07-2026	ENGLISH	ENGLISH	ENGLISH
13-07-2026	BIOLOGY	PSYCHOLOGY	PSYCHOLOGY / FOOD NUTRITION & DIETETICS
16-07-2026	PAINTING	PAINTING	PAINTING / LEGAL STUDIES
UNIT TEST – II			
20-07-2026	PHYSICAL EDUCATION	PHYSICAL EDUCATION	PHYSICAL EDUCATION
23-07-2026	MATHS	MATHS	MATHS
27-07-2026	I.P.	ACCOUNTANCY	I.P. / HISTORY
30-07-2026	PHYSICS	ECONOMICS	ECONOMICS / GEOGRAPHY
03-08-2026	ARTIFICIAL INTELLIGENCE	ARTIFICIAL INTELLIGENCE	ARTIFICIAL INTELLIGENCE
06-08-2026	CHEMISTRY	BUSINESS STUDIES	POLITICAL SCIENCE / HOME SCIENCE
10-08-2026	ENGLISH	ENGLISH	ENGLISH
13-08-2026	BIOLOGY	PSYCHOLOGY	PSYCHOLOGY / FOOD NUTRITION & DIETETICS
17-08-2026	PAINTING	PAINTING	PAINTING / LEGAL STUDIES