

SESSION 2023-24
SYLLABUS
CLASS VII

CONTENTS

S. NO.	Subject
1.	English
2.	Hindi
3.	French
4.	Mathematics
5.	Science
6.	Social Science
7.	Computer Science
8.	General Knowledge
9.	Art Education

ENGLISH

Learning Objectives –

Reading

To enable the students to -

1. read silently at varying speed depending on the purpose of reading.
2. recognise the organisation of a text.
3. identify the main points of a text.
4. read extensively on their own.

Writing

To enable the students to -

1. express ideas in clear and grammatically correct English, using appropriate punctuation and cohesion devices.
2. write a clear description.
3. expand notes into a piece of writing.
4. use an appropriate style and format to write letters (formal and informal), articles etc.; monitor, check and revise written work.

Listening

To enable the students to -

1. adopt different strategies according to the purpose of listening (e.g. for pleasure, for general interest, for specific information).
2. understand and respond appropriately to directive language (e.g. instruction, advice, request and warning).
3. understand and interpret messages conveyed in person or by telephone.

Speaking

To enable the students to -

1. operate intelligibly using appropriate word stress, sentence series and intonation pattern.
2. narrate incidents and events, real and imaginary, in a logical sequence.

Textbooks

1. Enhanced English Alive Coursebook- 7 (MCB)
2. Enhanced English Alive Literature Reader- 7 (LR)
3. Revised Collins English Grammar and Composition-7
4. Heidi by Johanna Spyri

General Note:

A thorough reading of the text on regular basis is a must as questions from within the lesson will be given in the exams/tests. Questions in the exams are likely to be different from those attempted in the notebooks.

FIRST TERM

Reading Comprehensions

- MCB - 1. Back from the Brink
2. Maryam Mirzakhani: Leading the Way
3. The Gift to Sing

Writing Skills

1. Notice Writing
2. Poster Making
3. Informal Letter Writing
4. Paragraph Writing

Grammar

1. Kinds of Sentences: Meaning
2. Types of Sentences: Structure
3. Nouns
4. Adjectives
5. Pronouns
6. Transitive and Intransitive Verbs
7. Agreement of Subject and Verb
8. Primary and Modal Auxiliaries
9. Expressing the Present
10. Expressing the Past
11. Expressing the Future
12. Active and Passive Voice
13. Test 1

Literature and Long Reading Text

- LR- 1. The Ballad of Semerwater (Poem)
2. Excuses, Excuses (Poem)
MCB- 3. Try Again (Poem)
LR- 4. The New Teacher
5. The Wrong House
MCB- 6. The Shopping List Mystery
7. Flames in the Forest

N.B.: Diary entry from the following chapter is to be done in class and assessed in literature section as long answer (80-100 words)

Flames in the Forest

Heidi - Chapters 1 to 7

Note: There will be separate assessment of listening and speaking skills.

Listening Activities to be taken up in the term –
MCB-

1. The Shopping List Mystery (pg. 26)
2. Flames in the Forest (pg. 57)
3. Maryam Mirzakhani: Leading the Way (pg.117)
4. Back from the Brink (pg. 70)

Creative Writing (Expressions)

1. Read the chapter, 'A Mad Tea Party'(LR). Imagine you are the Queen of Hearts. Write a letter inviting your friends to a tea party. The party should have an exciting theme.
2. The chapter, 'The Quest for Extraterrestrial Life' (MCB) is about the life outside Earth. Imagine you have returned from a space expedition. Today is your first day on the Earth after the voyage. Write a diary entry expressing your emotions.
3. Read the poem, 'Birds of a Feather' (MCB) which is about the different aspects of two birds- the Grackle and the Stork. Imagine you are a bird trapped in a zoo. Write a paragraph expressing your thoughts when you see the other birds flying freely in the sky.

SECOND TERM

Reading Comprehensions

- MCB - 1. The Diary of a Space Traveller
2. Star Trek- The Voyage Home

Writing Skills

1. Display Advertisement
2. Message Writing
3. Article Writing
4. Formal Letter Writing

Grammar

1. Adverbs
2. Prepositions
3. Conjunctions
4. Determiners and Quantifiers
5. Articles
6. Direct and Indirect Speech
7. Finite and Non-Finite Verbs
8. Phrases
9. Clauses
10. Transformation and Synthesis
11. Punctuation
12. Grammar on the Go
13. Words: A Mixed Bag
14. Test 2
15. Test 3

Literature and Long Reading Text

- LR- 1. It Couldn't Be Done (Poem)
2. Nightfall in the City of Hyderabad (Poem)
MCB- 3. Teachers (Poem)
LR- 4. How Far is the River
5. A Christmas Carol
MCB- 6. Fourteen - I
7. Fourteen- II
8. Goodbye, Pasha Begum!

N.B. : Diary entry from the following chapter is to be done in class and assessed in literature section as long answer (80-100 words)

How Far is the River

Heidi - Chapters 8 to 14

Note : There will be separate assessment of listening and speaking skills.

Listening Activities to be taken up in the term –

MCB-

1. Bob Dylan: The Voice of a Generation (pg.37)
2. Goodbye, Pasha Begum! (pg. 139)
3. Fourteen-I (pg.92)
4. The Diary of a Space Traveller (pg.160)

Creative Writing (Expressions)

1. Read the chapter, 'Frankenstein's Creation' (LR) which is about the irreversible outcomes of a well-intentioned experiment. You have a brilliant idea for an invention that will be of great use to mankind, but you need help and support. Write a letter to the Department of Science and Technology convincing them to help you with funds and resources.
2. Read the poem, 'The Spider and the Fly' (LR) which is a parable of the cunning spider and the foolish fly. Write an interesting conversation between a Venus flytrap and a butterfly similar to the one in the poem.
3. The chapter, 'Bob Dylan: The Voice of a Generation' (MCB) is about a famous singer Bob Dylan's life and his Banquet speech that was given on his behalf when he won the Nobel Prize for Literature. Imagine you have recently won a prestigious award at school. Write a thank-you note expressing your gratitude towards the people who helped you achieve your goal.

हिंदी

हिंदी शिक्षण का उद्देश्य :

1. भाषा की बारीकी को समझना और सौन्दर्यबोध की क्षमता का विकास करना।
2. दृश्य या श्रव्य माध्यमों की सामग्री को पढ़कर, देखकर और सुनकर समझने तथा उस पर

स्वतंत्र व स्वाभाविक मौखिक एवं लिखित प्रतिक्रिया व्यक्त करने की क्षमता का विकास करना।

3. विभिन्न साहित्यिक विधाओं का आनंद उठाने की क्षमता का विकास करना।
4. पठित, लिखित और सुने हुए भाषिक ज्ञान से संबंधित सामग्री का तार्किक दृष्टि से अध्ययन करने की प्रवृत्ति का विकास करना।
5. अपने भावों व विचारों को सहज, स्वाभाविक और शुद्ध अभिव्यक्त करने की क्षमता का विकास करना ।
6. शब्दों, मुहावरों, लोकोक्तियों का सुचिंतित प्रयोग करने की क्षमता का विकास करना।
7. मौखिक एवं लिखित अभिव्यक्ति के संदर्भ और आवश्यकता के अनुसार समुचित भाषा-शैली व प्रयोग को चुनने की समझ का विकास करना।
8. भाषा की नियमबद्ध प्रकृति को पहचानना और उसका विश्लेषण करना।

नोट:- 1. प्रत्येक पाठ से शब्दार्थ, वाक्य-प्रयोग, प्रश्नोत्तर, निबंधात्मक प्रश्न करवाए जाएँगे।
2. परीक्षा में पाठ के मध्य से प्रश्न पूछे जाएँगे, अतः पाठ को ध्यानपूर्वक पढ़ना आवश्यक है।

पाठ्य पुस्तकें :- 1. वसंत- भाग- 2 (एन.सी.ई.आर.टी.)
2. सुनो-सुनाओ (मधुबन)
3. परिचय हिंदी व्याकरण एवं रचना भाग-7 (एकलव्य लरनर्स पब्लिशिंग)

प्रथम सत्र

वसंत भाग - 2

गद्य पाठ - 1. मिठाईवाला (कहानी)
2. वीर कुँवर सिंह (जीवनी)
3. खानपान की बदलती तसवीर (निबंध)

पद्य पाठ - 1. हम पंछी उन्मुक्त गगन के
2. एक तिनका
3. रहीम के दोहे

पूरक पुस्तक - सुनो-सुनाओ

1. छुन छुन छुन
2. दोस्ती की परीक्षा
3. छींक मार खान
4. प्रतियोगिता

व्याकरण -

1. वर्ण विचार
2. संज्ञा
3. संज्ञा के विकार (लिंग, वचन, कारक)
4. सर्वनाम
5. विशेषण
6. पर्यायवाची शब्द (1-20)
7. विलोम शब्द (अमीर से अर्वाचीन तक)
8. अनेकार्थक शब्द (1-10)
9. अनेक शब्दों के लिए एक शब्द (1-15)
10. मुहावरे (1-15)
11. श्रुतिसम (समरूपी)भिन्नार्थक शब्द (1-10)

रचना कौशल -

1. अपठित-गद्यांश - संघर्ष के कारण मैं तुनुकमिज़ाज हो गया :धनराज (वसंत)
2. अपठित-काव्यांश - फूले कदंब (वसंत)
3. चित्र-वर्णन - 2
4. संवाद-लेखन - 2
5. विज्ञापन-लेखन - 2
6. पत्र-लेखन -2 (औपचारिक एवं अनौपचारिक)
7. निबंध-लेखन - 2

ग्रीष्मावकाश (प्रयोज्य कार्य हेतु)

1. विजय और हरि (सुनो-सुनाओ)
2. आश्रम का अनुमानित व्यय (वसंत)

द्वितीय सत्र

वसंत भाग -2

गद्य पाठ -

1. हिमालय की बेटियाँ (निबंध)
2. अपूर्व अनुभव (संस्मरण)
3. नीलकंठ (रेखाचित्र)

पद्य पाठ -

1. भोर और बरखा
2. कठपुतली
3. शाम- एक किसान

पूरक-पुस्तक सुनो-सुनाओ -

1. वापसी
2. यारों की बगिया
3. उपहार
4. पुरस्कार

व्याकरण -

1. क्रिया (कर्म के आधार पर)
2. काल
3. अविकारी शब्द (अव्यय)-क्रिया-विशेषण, संबंधबोधक
4. पर्यायवाची शब्द (21-40)
5. विलोम शब्द (उपकार से हर्ष तक)
6. अनेकार्थक शब्द (11-20)
7. अनेक शब्दों के लिए एक शब्द (16-30)

8. मुहावरे (16-30)
9. श्रुतिसम (समरूपी) भिन्नार्थक शब्द (11-20)

रचना कौशल -

1. अपठित-गद्यांश - (i) फेरीवालों की आवाज़ें (वसंत)
(ii) रधिया की बुलबुल (सुनो-सुनाओ)
2. अपठित-काव्यांश - हमारी ख्वाहिश (वसंत)
3. चित्र-वर्णन - 2
4. संवाद-लेखन - 2
5. विज्ञापन-लेखन - 2
6. पत्र-लेखन - 2 (औपचारिक एवं अनौपचारिक)
7. निबंध-लेखन - 2

शीतावकाश (प्रयोज्य कार्य हेतु)

1. नया मेहमान (सुनो-सुनाओ)
2. पापा खो गए (वसंत)

FRENCH

Learning Objectives:

1. To enhance the level of the students both in written and spoken French.
2. To enable the students to express themselves more effectively, naturally and correctly in the productive skill of writing.
3. To enhance the level of vocabulary and strengthen their concepts of grammar.
4. To enable the students to write in an appropriate style for communication purposes.
5. To develop basic understanding, conjugation of verbs in present, articles, prepositions, conjunctions, adjectives and different expressions.
6. To implement different strategies to make learning French an enjoyable and interesting experience.
7. To acquaint them with French culture and civilization.

Textbook : Mon Passeport pour le monde -2

Workbook: Cahier d'activités-2

Dictionary: Collins Gem

General Note:

Question from within the lessons and related to Culture and Civilisation of France will be asked in the exams/tests, so the students must ensure a thorough reading of the text.

FIRST TERM

Detailed Study

Textbook: Leçon 1: Connaissons la France

Leçon 2: Louis a mal

Leçon 3: C'est lundi

Leçon 4: Les trois souhaits

Workbook: Leçons-1, 2, 3, 4

Grammar:

1. Les adjectifs possessifs
2. Les verbes en (-ER), (-GER) et (-CER)
3. Le cas de deux verbes
4. Féminin des adjectifs
5. Le pluriel des noms
6. Les verbes du 2^e groupe
7. La négation
8. Les nombres ordinaux
9. Les verbes du 3^e groupe
10. Le verbe «faire»
11. L'interrogation (Est-ce que)
12. Les couleurs

SECOND TERM

Detailed Study

Textbook: Leçon 6 : On fait des courses

Leçon 7 : Les repas français

Leçon 8 : Mon école

Leçon 9 : Les loisirs préférés des Français

Workbook: Leçons-6, 7, 8, 9

Grammar:

1. Les verbes irréguliers (pgs 77, 78, 95, 119, 129)
2. Féminin des professions
3. Les articles contractés
4. Les articles partitifs
5. Les prépositions
6. Les adjectifs interrogatifs
7. Les adjectifs démonstratifs

MATHEMATICS

Learning Objectives

Teaching of Mathematics helps the learners to

- acquire knowledge and understand terms, symbols, concepts, principles, processes, proofs etc.
- consolidate the Mathematical knowledge and skills acquired at the primary level.
- develop mastery of basic algebraic skills.
- develop drawing skills.
- apply Mathematical knowledge and skills to solve real life problems by developing abilities to analyse, to see interrelationship involved, to think and reason.
- develop interest in Mathematics as a problem solving tool in various fields.
- develop reverence and respect towards great Mathematicians, particularly towards the Indian Mathematicians for their contributions to the field of Mathematics.

Textbook : Mathematics - Textbook for Class VII (NCERT)

Practice Book : Practice and More Mathematics (Ratna Sagar) Class 7

FIRST TERM

Chapter-1 : Integers

- Properties of Addition and Subtraction of Integers
 - Multiplication of Integers
 - Properties of Multiplication of Integers
 - Division of Integers
 - Properties of Division of Integers
- Ex. 1.1 to Ex. 1.3 with examples

Practice Book : Page No. 3 to 12

Chapter-2 : Fractions and Decimals

- Multiplication of Fractions
 - Division of Fractions
 - Multiplication of Decimal Numbers
 - Division of Decimal Numbers
- Ex. 2.1 to Ex. 2.5 with examples

Practice Book : Page No. 13 to 15, 17 to 18, 20 to 22

Chapter-5 : Lines and Angles

- Introduction
 - Related Angles
 - Pairs of Lines
 - Checking for Parallel Lines
- Ex. 5.1 and Ex. 5.2 with examples

Practice Book : Page No. 41 to 43, 46 to 49

Chapter-8 : Rational Numbers

- Introduction
- Need for Rational Numbers
- What are Rational Numbers?
- Positive and Negative Rational Numbers
- Rational Numbers on a Number Line
- Rational Numbers in Standard Form
- Comparison of Rational Numbers
- Rational Numbers Between Two Rational Numbers
- Operations on Rational Numbers
- Ex. 8.1 and Ex. 8.2 with examples

Practice Book : Page No. 78 to 86

Chapter-11 : Exponents and Powers

- Introduction
- Exponents
- Laws of Exponents
- Miscellaneous Examples using the Laws of Exponents
- Decimal Number System
- Expressing Large Numbers in the Standard Form
- Ex. 11.1 to Ex. 11.3 with examples

Practice Book : Page No. 112 to 118

Chapter-12 : Symmetry

- Introduction
- Lines of Symmetry for Regular Polygons
- Rotational Symmetry
- Line Symmetry and Rotational Symmetry
- Ex. 12.1 to Ex. 12.3 with examples

Practice Book : Page No. 119 to 123

Vedic Mathematics

1. Multiplication of numbers by “Nikhilam Sutra”
2. Multiplication of numbers by “Urdhava Triyagbhayam” method
3. Squaring of numbers by “Yavadunam” method
4. Division of numbers by 9 using “Nikhilam” method

SECOND TERM

Chapter-3 : Data Handling

- Representative Values
- Arithmetic Mean
- Mode
- Median
- Use of Bar Graphs with a Different Purpose
- Ex. 3.1 to Ex. 3.3 with examples

Practice Book : Page No. 23 to 29, 31

Chapter-4 : Simple Equations

- A Mind-reading Game
- Setting up of an Equation
- Review of what We Know
- What Equation is?
- More Equations
- Applications of Simple Equations to Practical Situations
Ex. 4.1 to Ex. 4.3 with examples

Practice Book : Page No. 32 to 40

Chapter-6 : The Triangle and its Properties

- Introduction
- Medians of a Triangle
- Altitudes of a Triangle
- Exterior Angle of a Triangle and Its Property
- Angle Sum Property of a Triangle
- Two Special Triangles : Equilateral and Isosceles
- Sum of the Lengths of Two Sides of a Triangle
- Right-Angled Triangles and Pythagoras Property
Ex. 6.1 to Ex. 6.5 with examples

Practice Book : Page No. 50 to 58

Chapter-7 : Comparing Quantities

- Percentage - Another Way of Comparing Quantities
- Use of Percentages
- Prices Related to an Item or Buying and Selling
- Charge Given on Borrowed Money or Simple Interest
Ex. 7.1 to Ex. 7.2 with examples

Practice Book : Page No. 68 to 69, 71 to 77

Chapter-9 : Perimeter and Area

- Area of a Parallelogram
- Area of a Triangle
- Circles
Ex. 9.1 to Ex. 9.2 with examples

Practice Book : Page No. 94 to 95, 97 to 98, 101 to 102

Chapter-10 : Algebraic Expressions

- Introduction
- How are Expressions Formed?
- Terms of an Expression
- Like and Unlike Terms
- Monomials, Binomials, Trinomials and Polynomials
- Finding the Value of an Expression
Ex. 10.1 to Ex. 10.2 with examples

Practice Book : Page No. 103 to 106, 108, 110 to 111

Chapter-13 : Visualising Solid Shapes

- Introduction : Plane Figures and Solid Shapes
 - Faces, Edges and Vertices
 - Nets for Building 3-D Shapes
 - Drawing Solids on a Flat Surface
 - Viewing Different Sections of a Solid
- Ex. 13.1 to Ex. 13.4 with examples

Practice Book : Page No. 124 to 131

Vedic Mathematics

1. Division by Paravartya - Yojayet Sutra
 - (a) Four digit numbers by two digit numbers
 - (b) Four digit numbers by three digit numbers
2. Multiplication of three numbers by “Nikhilam Navatascaramam Dasatah” Sutra.
3. Multiplication of numbers by “Urdhava Tirayak Sutra”.

SCIENCE

Learning Objectives

The objectives of teaching Science are:

- to strengthen the knowledge acquired at primary level.
- to emphasize the acquisition of scientific knowledge.
- to appreciate nature and sensitise the students about the environment.
- to understand scientific language i.e. symbols, formulae etc.
- to develop scientific attitude/temper.
- to apply the theoretical knowledge of Science to daily life.
- to make the students abreast with the latest technological developments that have taken place and their impact on the society.
- to enable the students to develop the process of problem solving and decision making.

Textbook: Science Textbook for Class VII (NCERT)

Assignment Book: Science Exemplar Problems for Class VII

PHYSICS FIRST TERM

Chapter-9: Motion and Time

Slow or fast, speed, measurement of time, measuring speed, distance - time graph.

Chapter-11: Light

Light travels along a straight line, reflection of light, right or left, playing with spherical mirrors, images formed by lenses, sunlight- white or coloured.

SECOND TERM

Chapter-3: Heat

Hot and cold, measuring temperature, laboratory thermometer, transfer of heat, kinds of clothes we wear in summer and winter.

Chapter-10: Electric Current and Its Effects

Symbols of electric components, heating effect of electric current, magnetic effect of electric current, electromagnet, electric bell.

CHEMISTRY FIRST TERM

Chapter-4: Acids, Bases and Salts

Acids and bases, natural indicators around us, neutralisation, neutralisation in everyday life.

Note: Introduction of symbols of some common elements and formulae of some common compounds.

SECOND TERM

Chapter-5: Physical and Chemical Changes

Physical changes, chemical changes, rusting of iron, crystallisation.

Chapter-13: Wastewater Story

Water - our lifeline, what is sewage? Water freshens up - an eventful journey, wastewater treatment plant, better house keeping practices, sanitation and disease, alternative arrangement for sewage disposal, sanitation at public places.

BIOLOGY FIRST TERM

Chapter-1: Nutrition in Plants

Mode of nutrition in plants, photosynthesis - food making process in plants, other modes of nutrition in plants, saprotrophs, how nutrients are replenished?

Chapter-2: Nutrition in Animals

Different ways of taking food, digestion in humans, digestion in grass eating animals, feeding and digestion in amoeba.

Chapter-6: Respiration in Organisms

Why do we respire? Breathing, how do we breathe? What do we breathe out? Breathing in other animals, breathing under water, Do plants also respire?

SECOND TERM

Chapter-7: Transportation in Animals and Plants

Circulatory system, excretion in animals, transport of substances in plants.

Chapter-8: Reproduction in Plants

Modes of reproduction, sexual reproduction, fruits and seed formation, seed dispersal.

Chapter-12: Forests: Our Lifeline

Visit to a Forest.

SOCIAL SCIENCE

Learning Objectives

The course in Social Science will help learners:

- develop an understanding of the processes of change and development - both in terms of time and space, through which human societies have evolved.
- deepen the knowledge and understanding of environment in its totality, their interactive processes and effects on the future life of people.
- develop scientific temper by promoting the spirit of enquiry and following rational and objective approach in analysing and evaluating data and information as well as views and interpretations.

Textbooks:

1. Our Pasts-II: Textbook in History for Class VII (NCERT)
2. Social and Political Life-II: Textbook in Civics for Class VII (NCERT)
3. Our Environment: Textbook in Geography for Class VII (NCERT)
4. Atlas - Oxford School Atlas

FIRST TERM

Our Pasts-II

Chapter 1 : Introduction: Tracing Changes Through A Thousand Years

Chapter 2 : Kings and Kingdoms

Map Work : Kanauj and important temple towns

Chapter 3 : Delhi: 12th to 15th Century

Map Work : Capital of Tomara Rajputs in the 12th century-Delhi, Capital of Chauhans in the 12th century- Ajmer, Capital of Delhi Sultans- Delhi

Chapter 5 : Tribes, Nomads and Settled Communities (**Project**)

Social and Political Life-II

Chapter 1 : On Equality

Chapter 2 : Role of the Government in Health

Chapter 3 : How the State Government Works

Chapter 4 : Growing up as Boys and Girls

Our Environment

Chapter 1 : Environment

Diagram : Domains of the Environment

Chapter 2 : Inside Our Earth

Diagram : Interior of the Earth

Chapter 3 : Our Changing Earth

Diagram : A Volcano; Features made by a river

Chapter 7 : Life in the Deserts

Map Work : World Political Map : Continent where Sahara desert lies,

countries situated on the boundaries of Sahara desert
India Political Map : Ladakh, Zojila pass, Zaskar Range,
Karakoram Range, Srinagar, Kargil and Leh

Map Work : World Political Map : Continents and Oceans

SECOND TERM

Our Pasts-II

Chapter 4 : The Mughals (16th to 17th Century)

Map Work : Panipat, Areas under control of Babur- Delhi and Agra

Chapter 6 : Devotional Paths To The Divine

Map Work : Regions associated with major Bhakti saints

Chapter 7 : The Making of Regional Cultures (**Project**)

Chapter 8 : Eighteenth-Century Political Formations

Map Work : City plundered by Nadir Shah in 1739- Delhi,

Capital of Marathas in the 18th century- Poona, Capital of Ranjit
Singh- Lahore, Region under the control of Jats - Delhi and Agra,
New capital of Sawai Raja Jai Singh- Jaipur

Social and Political Life-II

Chapter 5 : Women Change the World

Chapter 6 : Understanding Media

Chapter 7 : Markets Around Us

Chapter 8 : A Shirt in the Market

Our Environment

Chapter 4 : Air

Diagram : Layers of the Atmosphere

Chapter 5 : Water

Diagram : Water Cycle

Map Work : World Political Map : Ocean currents - Labrador, Gulf stream,
California, Brazilian, Kuroshio, West Australian, Oyashio.

World Political Map : Largest Great Lake of North America,
longest river, largest river, water body that separates Europe and
Africa, largest inland body of water- Caspian sea, An inlet of
the Indian ocean- Red sea

Chapter 6 : Human Environment Interactions - The Tropical and the Subtropical Region

Map Work : World Political Map : River Amazon, areas drained by Amazon

River; the equator and the countries passing through the equator,
Continent in which the Amazon Basin is located- South America

India Political Map : River Ganga, River Brahmaputra, Tributaries of river Ganga

COMPUTER SCIENCE

Learning Objectives:

- to develop the basic skills of programming in HTML.
- to develop the basic skills of programming in Python.
- to familiarize the students with the concept of Artificial Intelligence.

Textbook: Code AI-IT Planet (Class 7)

FIRST TERM

Lesson 1: Number System

- Introduction
- Number System
- Conversion of Number Systems
 - Decimal to Binary Conversion
 - Binary to Decimal Conversion
- Bits and Bytes

Lesson 6: HTML5-Creating Web Pages using CSS

- Introduction to HTML
- HTML5
- Text Editors
- Web Browser for HTML5
- Creating and Saving a Web Page
- Basic HTML Tags
- Modifying Paragraph Text
- Displaying Web Page in a Web Browser
- Heading Tag
- Formatting Text
 - Bold, Italic, Subscript and Superscript Text

Lesson 7: HTML5- Images, Links and Table

- Images in Web Pages
- Inserting Images
 - Specifying the size of image
- Creating List
- Links in Web Page
- Tables in Web Page
 - Creating a Table

SECOND TERM

Lesson 5: Internet-Ethics and Safeguard

- Internet
- Protecting Yourself from Potential Threats on Web

- Role of Parents and Teachers

Lesson 8: Python-Conditional Control Structures and Turtle

- Computer Program
- Operators
- Statements
- Control Structures
- Python Turtle

Lesson 10: AI for Sustainable Development Goals

- Sustainable Development
- Sustainable Development Goals (SDGs)
- Ethical Concerns of AI Related to Data
- AI Lab

For Practical sessions only

Lesson 3: Photoshop-Introduction

Lesson 4: Photoshop-Working with Layers

GENERAL KNOWLEDGE

Learning Objectives

The course in General Knowledge will help learners:

- grow both on personal as well as academic level.
- improve their reasoning and thinking skills.
- prepare for competitive exams.
- understand and analyse the situations.

Textbook: GK Planet -7 (PMP Planet)

FIRST TERM

Unit -1 Flora and Fauna

1. Exotic Fruits
2. National Trees
3. Misleading Names
4. Dinosaurs

Unit-2 Science and Technology

5. Blood Quiz
6. Branches of Science
7. Coronavirus and Other Pandemics
8. India in Space

Unit-3 Exploring India

- 9. Hall of Fame
- 10. Medieval India
- 11. New Union Territories
- 12. Tribes of India

Unit-4 Exploring the World

- 13. South America
- 14. Founding Fathers
- 15. A Glimpse of 20th Century
- 16. Business Tycoons

ASSIGNMENT-I

Unit-5 Sports and Entertainment

- 17. FIFA World Cup
- 18. Gymnastics
- 19. Legends of Indian Cinema
- 20. Indian Vocalists

Unit-6 Language and Literature

- 21. Vedas: Ancient Scriptures
- 22. Vocab Test
- 23. Abbreviations and Acronyms
- 24. Mythical Creatures

Unit-7 Mental Ability

- 25. Verbal Reasoning
- 26. Reasoning in AI
- 27. Integrated Learning

Unit-8 Life Skill and Personality Development

- 28. Data Interpretation
- 29. Cyber Security
- 30. Martial Art

ASSIGNMENT-II

Quiz Contest -I

SECOND TERM

Unit – 1 Flora and Fauna

- 31. Rare Flowers
- 32. Forests of the World
- 33. Endemic to India
- 34. Amazing Animals

Unit-2 Science and Technology

- 35. In the Science Lab
- 36. Famous Inventors
- 37. Computer Tech-terms
- 38. Natural Disasters

Unit-3 Exploring India

- 39. Famous Indian Fairs
- 40. Lakshadweep
- 41. Indian Painters
- 42. Social Movements

Unit-4 Exploring the World

- 43. Major Waterfalls
- 44. Groups of Nations
- 45. Historical Personalities
- 46. Modern Bridges

ASSIGNMENT- III

Unit-5 Sports and Entertainment

- 47. Football Leagues
- 48. 2020 Summer Olympics
- 49. Music Genres
- 50. Indian Film Directors

Unit-6 Language and Literature

- 51. Words of Foreign Origin
- 52. Literary Awards of India
- 53. Movies on Novels
- 54. Top Magazines

Unit-7 Mental Ability

- 55. Anagram
- 56. Non-Verbal Reasoning
- 57. Venn Diagram

Unit-8 Life Skill and Personality Development

- 58. Wildlife Conservation
- 59. Consumer Rights
- 60. AI-based Apps

ASSIGNMENT – IV

Quiz Contest - II

ART EDUCATION

Learning Objectives -

-Introduce the students to new media and techniques and their use for creative expression and making objects of common use.

-Refine the sense of appreciation of the beauty of nature and the basic elements of art forms.

Textbook –It's Time to Learn - 7

FIRST TERM

1. Know about colours (Primary. Secondary and Neutral)
2. Basic colouring strokes and techniques.

It's Time to Learn – 7

Pages 4 to 34

SECOND TERM

It's Time to Learn - 7

Pages 35 to 64