

# HOLIDAY ASSIGNMENT

**Session 2026-27 Class: VII**

**“Summer days are here to play,  
learn new things in a fun-filled way!”**

**The holidays are finally here—  
A time for joy, fun, and cheer!  
Relax a bit, explore the new,  
Let curiosity guide you too.**

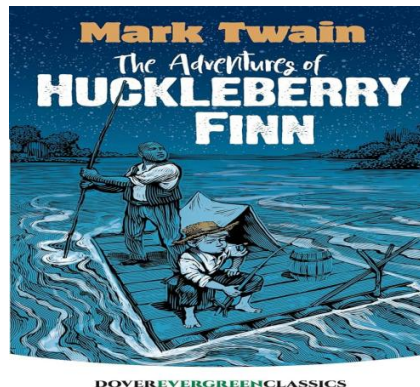
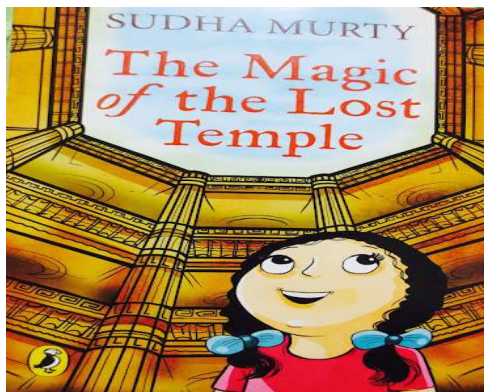
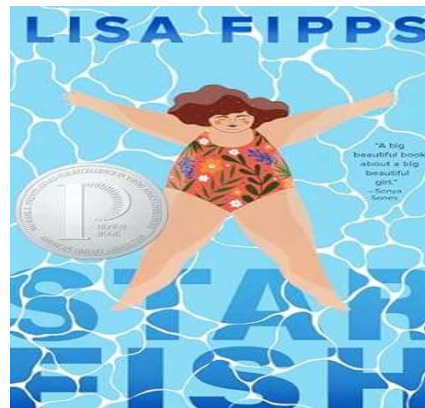
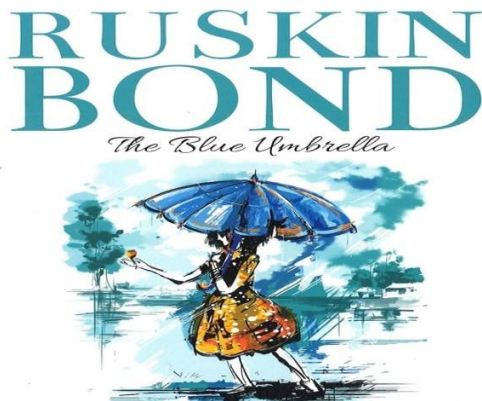
**Read a book, or draw and create,  
Try something different—don’t hesitate!  
These assignments are made for you,  
To learn with fun in all you do.**

**Be neat, be bright, do your best,  
But don’t forget to take some rest!  
Enjoy each moment, laugh and play,  
And learn something new every day!**

## ENGLISH

(Do the following work in your English Grammar Notebook)

Q1. Read any one of the following books and answer the following questions:



- The summary of the story along with the author, the illustrator and the publisher.
- Paste/ draw picture of your favourite character and write few lines about him/her.

Q2. Write a paragraph in your grammar notebook on any one of the topics given below:

- A Day Without Mobile Phone
- Fit India Movement

### Project Work-

Q3. Make a beautiful bookmark. Decorate it and write on inspirational quotation which inspires you the most.

**Q4.** Create your own School Magazine using A4 Size colourful scrap book. The cover page should be colorful and attractive. Include the following topics in it-

- Write about your favourite writer and his life along with his/ her famous story.
- Famous Quotations, Idioms and Riddles.
- News articles and pictures related to environment.
- An advertisement related to any product.

Paste pictures and the magazine must comprise of at least 7 pages.

**Q5.** Make a beautiful chart on the given topic according to your roll no.

| <b>Roll No.</b> | <b>Topics</b>                 |
|-----------------|-------------------------------|
| 1 to 10         | Grammar topic (any one)       |
| 11 to 20        | Moral story using comic strip |
| 21 to 31        | Famous Poetry                 |
| 31 onwards      | Inspirational Quotations      |

- **Complete and revise the entire syllabus covered in the month of April & May in your notebooks for the upcoming periodic test.**

**PRACTICE WORKSHEET (2026-27)**

**ENGLISH**

**NAME:** \_\_\_\_\_ **SEC:** \_\_\_\_\_ **ROLL NO.** \_\_\_\_\_

**Q1. Read the passage carefully and answer the given questions:**

A tree plantation drive was organized by the local community in the park. The event was aimed at raising awareness about the importance of trees for the environment.

The drive was launched by the Mayor of the city and attracted many residents including children, teenagers, and adults. They planted saplings of various types of trees such as neem, mango, and banyan. The participants also received pamphlets which explained the benefits of trees such as providing oxygen, improving air quality and reducing pollution.

Several environmentalists provided brief talks on the role of trees in preserving the natural balance during the event. One of the speakers mentioned, "Trees are essential for keeping our environment healthy and green. They also provide shelter to birds and animals." The children enjoyed planting the saplings and were especially enthusiastic about the cause. Some even suggested that more trees should be planted near schools and playgrounds.

The Mayor highlighted the importance of community efforts to protect nature and urged everyone to plant more trees at home and in their surroundings in his speech. The event ended with everyone pledging to take care of the trees they had planted and to encourage others to do the same.

a) Why are the trees important for the environment? Mention any two reasons.

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b) What did the children enjoy the most during the event?

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C) How can more trees be planted in the community?

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D) What did the pamphlet given to the participants explain?

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**Q2. Fill in the blanks with correct forms of verbs given in the bracket.**

- a) Suddenly, a child \_\_\_\_\_ (come) in front of the car yesterday.
- b) Raman and Chaman always \_\_\_\_\_ (go) to the market together.
- c) These school boys \_\_\_\_\_ (play) football every day.
- d) Last week, we \_\_\_\_\_ (travel) all day
- e) Every day, she \_\_\_\_\_ (wake) up early and gets ready for work.
- f) It was a hot day, so I \_\_\_\_\_ (decide) to prepare salad for lunch.

Outside, the children \_\_\_\_\_ (play) in the garden. Suddenly I  
\_\_\_\_\_ (hear) a loud noise, followed by a scream. I \_\_\_\_\_ (run)  
outside to see what \_\_\_\_\_ (happen).

**Q3. Fill in the blanks choosing the correct words from the brackets:**

- a. My mother made a wonderful \_\_\_\_\_. (desert, dessert)
- b. I felt insulted when she did not \_\_\_\_\_ my gift. (accept, except)



## विषय-हिन्दी

### निर्देश:-

1. कार्य करते समय स्वच्छता का विशेष ध्यान रखें।
2. समस्त लिखित कार्य अपनी व्याकरण कॉपी में कीजिए।

### लिखित कार्य

- प्रश्न 1- बड़े भाई के विवाह में शामिल होने के लिए चार दिन के अवकाश के लिए अपनी प्रधानाचार्या जी को प्रार्थना पत्र लिखिए।
- प्रश्न 2- वाद-विवाद प्रतियोगिता में प्रथम स्थान प्राप्त करने पर छोटी बहन को बधाई देते हुए पत्र लिखिए।
- प्रश्न 3- 'समय का सदुपयोग' विषय पर लगभग 100 शब्दों में एक अनुच्छेद लिखिए।
- प्रश्न 4- 'कलर विजन' टीवी. बनाने वाली कंपनी अपनी बिक्री बढ़ाने के लिए विज्ञापन तैयार करवाना चाहती है। आप उसके लिए एक आकर्षक विज्ञापन A3 साईज शीट पर तैयार कीजिए।
- प्रश्न 5- चित्रों को देखकर कहानी का निर्माण कीजिए-



### रचनात्मक कार्य

- प्रश्न-1 अपने अनुक्रमांक के अनुसार निम्नलिखित विषय पर सुंदर और आकर्षक चार्ट का निर्माण कीजिए।

(क) मैथिलीशरण गुप्त जी की किसी भी एक कविता को चित्र सहित लिखिए।(पाठ्य पुस्तक से अतिरिक्त)

(अनुक्रमांक 1 से 15)

(ख) महापुरुषों की सूक्तियों पर आधारित चार्ट का निर्माण कीजिए। (अनुक्रमांक 16 से 30)

(ग) 'वृक्ष है तो,जीवन है' विषय पर सुंदर नारों का निर्माण कीजिए। (अनुक्रमांक 31 से आगे)

### स्मरण कार्य

△ पाठ्य पुस्तक 'मल्हार' - पाठ- 1 माँ कह एक कहानी

पाठ 2- तीन बुद्धिमान

△ बाल महाभारत - पाठ-1 देवव्रत

पाठ-2 भीष्म प्रतिज्ञा

पाठ-3 अंबा और भीष्म

पाठ-4 विदुर

(प्रश्नोत्तर याद कीजिए)

## कार्य पत्रिका

नाम - \_\_\_\_\_ अनुक्रमांक- \_\_\_\_\_ कक्षा एवं वर्ग- \_\_\_\_\_

**प्रश्न -1 निम्नलिखित गद्यांश को पढ़कर प्रश्नों के उत्तर दीजिए-**

किसी ने ठीक ही कहा है कि समय धन के समान है। अतः जिस प्रकार हम धन का हिसाब-किताब सावधानी और सतर्कता से करते हैं, उससे भी अधिक सावधानी हमें समय के हिसाब में रखनी चाहिए। इसका कारण है कि धन आता-जाता रहता है। जबकि समय कभी वापस नहीं आता। समय का बजट बनाना जिसने सीख लिया, उसने जीने की कला सीख ली। उसने ही सुख-समृद्धि के भंडार की कुंजी प्राप्त कर ली।

समय-विभाजन के अनुसार काम करने से हमें व्यस्त जीवन के चलते निश्चिंतता के क्षण मिल जाते हैं। सभी काम सुचारु रूप से निश्चित समय पर अनायास होते चले जाते हैं। कसरत के लिए समय निकल आता है, मनन-चिंतन के लिए भी समय मिल जाता है और पठन-पाठन के लिए भी। यही नहीं, अपने व्यवसाय में भी हम पहले से कहीं अधिक कुशल, कहीं अधिक सक्षम बन जाते हैं। सारी उतावली, सारी परेशानी दूर हो जाती है।

**(क) समय की तुलना किससे की गई है?**

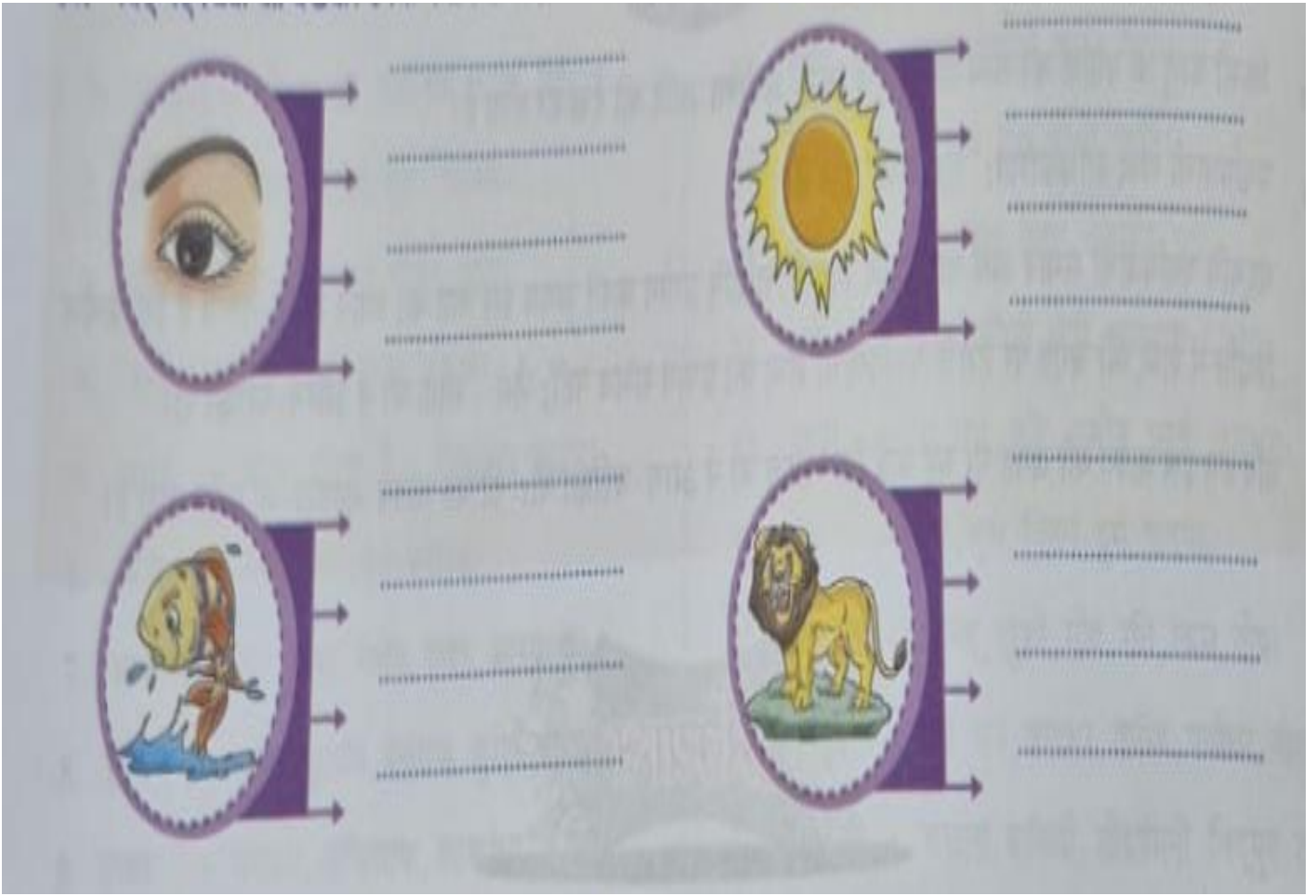
**(ख) धन से ज्यादा किसका हिसाब रखना चाहिए?**

**(ग) जीने की कला और सुख-समृद्धि के भंडार कौन प्राप्त कर पाता है?**

**(घ) समय विभाजन के अनुसार काम करने पर हम कैसा महसूस करते हैं?**

**(ङ) समय विभाजन से हमें किन कार्यों के लिए समय मिल जाता है तथा हम किसमें अधिक सक्षम बन जाते हैं? स्पष्ट कीजिए।**

**प्रश्न 2- दिए गए चित्रों को देखकर उनके पर्यायवाची शब्द लिखिए-**



प्रश्न 3- निम्नलिखित शब्दों के दो-दो पर्यायवाची शब्द लिखिए-

- |                     |                     |
|---------------------|---------------------|
| (i) किसान - _____   | (ii) कमल - _____    |
| (iii) नाव - _____   | (iv) दया - _____    |
| (v) राजा - _____    | (vi) गणेश - _____   |
| (vii) वन - _____    | (viii) अश्व- _____  |
| (ix) मनुष्य - _____ | (x) सरस्वती - _____ |

प्रश्न 4- नीचे दिए गए शब्दों का वर्ण विच्छेद कीजिए।

- (क) अनुमान - \_\_\_\_\_
- (ख) कहानी - \_\_\_\_\_
- (ग) सौभाग्य - \_\_\_\_\_

(घ) त्रिभुज - \_\_\_\_\_

(ङ) चाँदनी - \_\_\_\_\_

प्रश्न 5- वर्ण- विचार पर आधारित गतिविधि-

1. बादल में दिए गए वर्णों को सही स्थान में लिखिए-

गहन सोच  
(Critical Thinking)

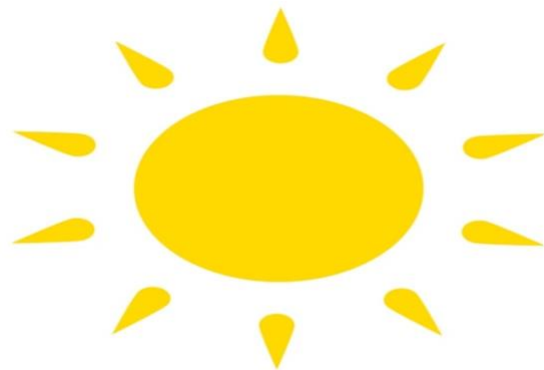
नमः पतंग डॉक्टर मॉल प्रातः  
शंख अतः छः चाँद मंगल कॉलेज  
आँगन कंगन माँ बॉल दाँत

अनुस्वार  
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अनुनासिक  
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विसर्ग  
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आगत वर्ण  
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## MATHEMATICS

### 1) WORKSHEET

Q1.Estimate:  $2,39,485 + 6,71,832$  by rounding each to nearest lakh.

Q2.Express 75,38,46,120 in words using both the Indian and International Systems.

Q3.Write the numbers and Arrange the following in descending order: 3 crore 15 lakh, 98 lakh 60 thousand, 5 crore 8 lakh, 9 crore 3 lakh.

Q4.Write the following number names in Indian as well as in American system:

a) 246813579

b) 427497103

c) 887342015

d) 200220022

Q5.Write the following numbers in numerals:

a) Two billion Seventy million five hundred thousand forty

b) Ten crore three lakh nine thousand sixty eight

c) Four arab Eighty-nine crore thirty-five lakhs one thousand three hundred seventy-five

d) Five crore five lakh five thousand eight

Q6.There are 120 seats in a balcony of a theatre. If  $\frac{3}{5}$  of the seats are occupied by the people for a show. The number of people present in the balcony is?

Q7.  $\frac{1}{4}$  litre of milk costs ₹ 4. the cost of  $6\frac{1}{2}$  litres of milk is ?

Q8. A water tank can hold **600 liters** of water. In the morning,  $\frac{1}{4}$  of the tank is filled. In the afternoon, another  $\frac{2}{5}$  of the tank is filled. How many liters of water are still needed to completely fill the tank?

Q9.Evaluate the following:

1.  $(\frac{3}{4}) + (\frac{5}{8}) - (\frac{1}{2})$

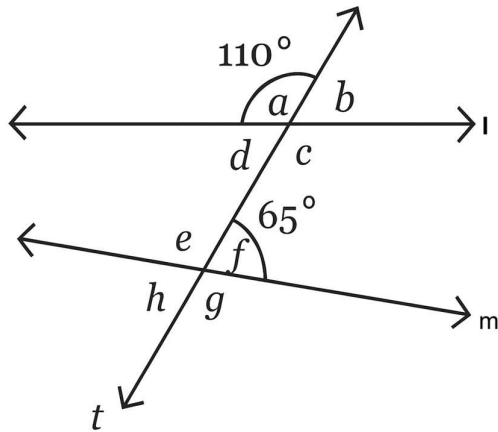
2.  $(\frac{7}{9}) \times (\frac{3}{5}) + (\frac{2}{3})$

3.  $(\frac{11}{6}) - [(\frac{2}{3}) + (\frac{1}{2})]$

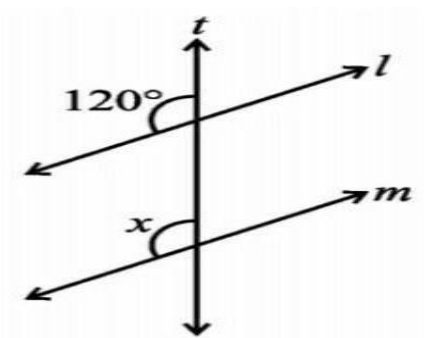
4.  $[(\frac{5}{12}) \div (\frac{1}{3})] + (\frac{7}{4})$

5.  $(\frac{4}{5}) + [(\frac{3}{10}) \times (\frac{2}{3})]$

Q10. In the given figure, lines  $l$  and  $m$  are intersected by transversal  $t$ . If  $\angle a = 110^\circ$  and  $\angle f = 65^\circ$ , are  $l$  and  $m$  parallel?



Q11. Lines  $l \parallel m$ ;  $t$  is a transversal  $\angle x = ?$



## 2) CREATIVE CORNER

### A) PROJECT WORK

1. **Mathematics in Daily Life** :- Make a project showing how math is used in cooking, shopping, travel, or budgeting etc. Use real bills, pictures, and examples. (at least 5 examples must be covered) (Roll no 1 to 20)

2. **Design a Math Game**- Design a simple maths game and explain how it is played. (For example: a board game, card game, or number-based game.)

You may use materials like dice, cards, tokens, paper, etc. (Roll no 21 to 40)

*Play your game with your friends or family. Write the names of the players and the winner. Be creative and try something new.*

**Example: Maths Bingo****Concept:** Fractions / Decimals**How to Play:**

- Make a 3×3 grid with answers
- A player calls out questions
- Example: "What is  $\frac{1}{2}$  of 10?"
- If the answer is on your grid, mark it
- First to complete a line wins

\*Use A4 sheets to present your project work

**B) ACTIVITIES**

1. Create a booklet of 10 fun math riddles or brain teasers, or logic puzzles etc.
2. Create a mathematical comic strip using any mathematical concept of your choice (e.g., fractions, decimals, proportions, angles, etc.).

NOTE: PRACTISE AND REVISE CH- 1, 8 AND 5 OF GANITA PRAKASH

## SCIENCE HOLIDAY HOMEWORK

**Do the following questions in your Science notebook.**

Q1. Mala was very concerned when she dropped a little curry on her new dress. She immediately got up to wash the affected part with soap. To her dismay, the yellow spot turned red. Can you explain why?

Q2. Why only Solar cells and not any other types of cells are used in satellites?

Q3. Cooking utensils are made up of metals but their handles are made up of wood or plastic. Why?

Q4. Deepti went on an expedition to Iceland. Because it is very cold there she took a fur coat with her. On reaching there, she realized that it was so cold that even the fur coat was not enough. A local guide told her to wear the fur coat inside out. She tried it and felt much warmer. But she was confused. Can you solve her confusion and tell why she felt much warmer wearing fur coat inside out?

Q5. What is Air Quality and AQI? Find out the effect of air quality on the respiratory systems of people. What measures should be taken to improve this.

Q6. Arun loves to eat junk food. He is overweight. His friend Ayesha is very worried. She constantly advised him to cut down on junk food and eat more fruits and vegetables. Do you think she is right? What values does she show?

### **DIY CORNER:**

- Prepare a project Report on "Heat Wave".
- Make a closed bottle garden (Sealed Terrarium).

### **LEARNING Work:**

Learn and Revise : Ch- 2 Exploring Substances: Acids, Bases and Salts.  
Ch- 10 Life processes in Plants.

**SCIENCE WORKSHEET**  
**CH 10**  
**LIFE PROCESSES IN PLANTS**

\*Solve & Paste this worksheet in your science notebook.

**Q1. Choose The Correct Answer:**

**1. Which part of the plant is the main site of photosynthesis?**

- (a) Stem
- (b) Root
- (c) Leaf
- (d) Flower

**2. The green pigment that absorbs sunlight for food preparation is called:**

- (a) Hemoglobin
- (b) Chlorophyll
- (c) Starch
- (d) Phloem

**3. Which of these is released as a byproduct during photosynthesis?**

- (a) Carbon dioxide
- (b) Nitrogen
- (c) Oxygen
- (d) Hydrogen

**4. Tiny pores on the leaf surface responsible for gas exchange are:**

- (a) Xylem
- (b) Stomata
- (c) Phloem
- (d) Guard cells

**5. Plants respire:**

- (a) Only during the day
- (b) Only during the night
- (c) Both day and night
- (d) Only during photosynthesis

**Q2. Fill in the Blanks**

1. Plants store their food mainly in the form of \_\_\_\_\_.
2. The \_\_\_\_\_ tissue transports water and minerals from roots to leaves.
3. \_\_\_\_\_ solution is used to test the presence of starch in a leaf.
4. The tissue responsible for carrying food to all parts of the plant is \_\_\_\_\_.
5. Loss of water from the leaves in the form of vapour is called \_\_\_\_\_.

**Q3. True or False**

1. Only green leaves can perform photosynthesis. (\_\_\_\_)
2. Respiration in plants uses oxygen and releases carbon dioxide. (\_\_\_\_)
3. Phloem helps in the upward movement of water. (\_\_\_\_)
4. Photosynthesis occurs in the absence of sunlight. (\_\_\_\_)

**Q4. Short Answer Questions**

**1.Explain why leaves are known as the "food factories" of a plant.**

**2.Define transpiration and state one of its benefits for the plant.**

**3.Write the word equation for photosynthesis.**

**4.Differentiate between Xylem and Phloem. (3POINTS)**

**5.Briefly describe an experiment to show that sunlight is necessary for photosynthesis.**

### Q5. Think & Answer

- **Scenario:** If we coat the underside of a leaf with Vaseline (petroleum jelly), what will happen to the leaf after a few days? Explain.

# Social Science

## Part-1

### Project Work

#### **Activity:**

- a) Choose any one Sacred Place and make its 3D model. Include the Following points:-  
Key features like temple domes, rivers, mountains or pilgrims.
- b) You are a travel planner assigned to design a 7-day sustainable and budget-Conscious itinerary for a group of 5 students visiting Sikkim for the first time.  
Prepare an itinerary for the same.

#### **Project work:**

##### **Make a project report on:**

- **Roll no. 1 to 20-** any three Physical features of India. (Himalayas, Thar Desert, Northern Plains). You may include the region, location, occupation of people living in these regions, major crops grown or natural resources found and places of tourist attractions.
- **Roll no. 21 onwards-** Varna-Jati system in ancient India. Include the following information:-
  - The main Varnas- Brahmin, Kshatriyas, Vaishyas, Shudras
  - Their origin , hierarchical structure in society etc.
  - Examples of Jati/occupational groups under each Varna example, farmers, potters, Weaver, soldiers, teachers.
  - Symbols or icons for each group, (like a book for Brahmans, sword for Kshatriyas, plough for Vaishyas, and tools for Shudras.

**Note:** (Project should have at least 10 pages and include pictures too).

#### **Revise the syllabus of periodic test:**

**History:-** Ch-4 Early Cities and States of India.

Ch-8 Our Scared Land.

**Geography:-** Ch-1 India's Physical Features.

## Part-2

### Assignment

Note: Solve the assignment on ruled sheets.

### Geography

#### Q1. Fill in the blanks:

1. \_\_\_\_\_ is the world's tallest peak.
2. The \_\_\_\_\_ is surrounded by water on three sides.
3. \_\_\_\_\_ is the other name for the Shivaliks.
4. The Aravali hills are among the \_\_\_\_\_ mountain ranges in the world.

#### Q2. Define the following:

1. Delta
2. Glacier
3. Estuary
4. Gorge.

#### Q3. Answer the following in 30-50 words:

1. Why Ladakh is called a desert?
2. Write the specific features of the Greater Himalayas.
3. How were Himalayas formed?

#### Q4. Answer the following in 80-100 words:

1. Differentiate between the Western and the Eastern Ghats.
2. How do natural features like mountains, deserts and seas form boundaries around India?
3. Why is the Peninsula Plateau important for India?
4. Which region is more suitable for human settlement: the Gangetic Plains or Ladakh? Why?

### History

#### Q1. Select the correct options:

1. Which of these is not an example of a sacred natural feature in India?  
a) River Ganga                      b) Girnar Hills                      c) Ajmer Sharif Dargah





कक्षा - सप्तमी

विषय - संस्कृत

### लिखित कार्यम्

(निर्देश - नीचे दिए गए प्रश्न संस्कृत व्याकरण कार्यपुस्तिका में पूर्ण करें।)

- 1) सर्वनाम शब्दरूपाणि - तत् (तीनों लिङ्गों में ) पूर्ण करें ।
- 2) धातुरूप - पठ् , पत् , स्मृ , गम् , भू , दृश् (लट् तथा लृट् लकार) में पूर्ण करें ।
- 3) संख्यावाचक शब्द - 26 से 50 पूर्ण करें ।

### रचनात्मक कार्यम्

(निर्देश: - सभी विद्यार्थी अपने-अपने अनुक्रमांक के अनुसार निर्धारित गतिविधि को सुंदर एवं रचनात्मक ढंग से तैयार करें।)

- (1) लट् व लृट् लकार का प्रयोग व उदाहरण (Flash card) के माध्यम से बताइए। (अनुक्रमांक 1 से 15)
- (2) 3-4 सरल पहेलियाँ (riddles) संस्कृत में बनाइए। (अनुक्रमांक 16 से 30)
- (3) भाव - अभिनय - 4 भाव चुनें (हर्ष, क्रोध, दुःख, आश्चर्य) प्रत्येक भाव को A-3 शीट पर चित्र एवं वाक्य के साथ दर्शाइए। ( अनुक्रमांक 31 से 42)

### स्मरण कार्यम्

- (1) संस्कृत पाठ्यपुस्तक (दिव्यम्) - पाठ-1(वार्तालापः), पाठ-2 (लङ्लकारः - प्रथमपुरुषः) तथा पाठ-(लङ् लकारः - मध्यम पुरुषः) याद करें ।
- (2) दीर्घ व गुण सन्धि उदाहरण सहित याद करें।
- (3) देव तथा लता के शब्द रूप याद करें।
- (4) धातु रूप - पठ् , गम् , पत् ( लट् तथा लृट् लकार ) याद करें ।

## कार्यपत्रिका

1) चित्रों को देखकर संस्कृत भाषा में लड़ लकार के वाक्य बनाइए।



यथा—सा दुग्धम् अपिबत्।

(i)



(ii)



(iii)



(iv)



(v)

2) चित्र देखकर सहायक शब्दों द्वारा रिक्त स्थानों की पूर्ति कीजिए -

सहायक शब्द: ग्राम, कन्दुक, मोहन, वृक्ष, दशरथ, वानर



.....ग्रामम्..... उभयतः नद्यौ स्तः।

(घ)



बालकः ..... क्रीडति।

(ङ)



..... मिष्ठानं रोचते।

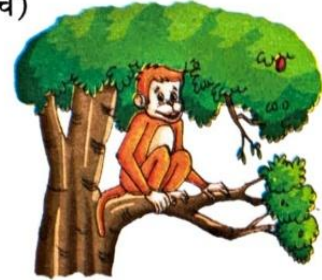
(च)



..... फलानि पतन्ति।



..... पुत्रः रामः अस्ति।



वृक्षे एकः ..... तिष्ठति।

(3) चित्राणि दृष्ट्वा प्रदत्तवर्णैः सार्थकं शब्द निर्माणं कुरुत -



निकःसै



चपाकः



किचित्सकः



यकःगा



कःनिवैज्ञा



क्षुभिकः

(4) किम् सर्वनाम शब्देन उचित रूपेण प्रश्न निर्माणं कुरुत -



(क) ताः कोकिलाः।  
ताः .....?



(ख) एतानि मित्राणि।  
एतानि .....?



(ग) ते अश्वाः।  
ते .....?



(घ) तौ बालकौ।  
तौ .....?



(ङ) तत् फलम्।  
तत् .....?



(च) एताः गायिकाः।  
एताः .....?

(5) अधोलिखितान् संवादन् मञ्जूषायां प्रदत्तशब्दैः पूरयत-

पिता - त्वम् किम् (i) \_\_\_\_\_ ?

पुत्रः - लेखम्।

पिता - लेखं, परं कस्मिन् विषये?

पुत्रः - पर्यावरणस्य विषये।

पिता - किमर्थम्?

पुत्रः - श्वः मम विद्यालये भाषणस्य (ii)\_\_\_\_\_ अस्ति।

पिता - ओह। विषयः तु अत्युत्तमः।

पुत्रः - आम्। अद्य औद्योगिकविकासः तु (iii)\_\_\_\_\_ एव।

पिता - आम्। औद्योगिकविकासेन वातावरणम् अपि (iv)\_\_\_\_\_ भवति।

पुत्रः - एतद् तु सत्यम्।

पिता - अतः पर्यावरणस्य विषये (v)\_\_\_\_\_ अनिवार्या।

मञ्जूषा - दूषितम्, प्रतियोगिता, जागरूकता, लिखसि, वर्धते

(6) अधोलिखितम् अनुच्छेदं पठित्वा संस्कृतभाषायां प्रश्नान् उत्तराणि लिखत।

विश्वेऽस्मिन् समयः सर्वाधिकं बहुमूल्यम् अस्ति। वयम् अन्यानि धनानि पुनः प्राप्तुं शक्नुमः; परं विनष्टः समयः केनापि प्रकारेण लब्धुं न शक्यनुमः। अत्र एकमपि क्षणं वृथा मा कुर्यात्। सर्वदा समयस्य सदुपयोगमेव कुर्यात्। जीवने समयः स्वल्पः; परं कर्तव्यानि बहूनि सन्ति।

I. एकपदेन उत्तरत। (एक पद में उत्तर दीजिए।)

(i) विश्वे सर्वाधिकं बहुमूल्यं किमस्ति?

.....

(ii) वयं पुनः कं लब्धुं न शक्नुमः?

.....

II. पूर्णवाक्येन उत्तरत। (पूर्ण वाक्य में उत्तर दीजिए।)

विनष्टः समयः कथं लब्धुं शक्नुमः?

.....

III. निर्देशानुसारम् उत्तरत। (निर्देश के अनुसार उत्तर दीजिए।)

‘शक्नुमः’ पदस्य कर्तृपदं किम्?

.....

## COMPUTER SKILLS

### ARTIFICIAL INTELLIGENCE

#### Ch- AI Domains & Applications

I. Make a poster on given topic according to your roll no. on A4 size sheet.

| S.No. | Topic                            | Roll Nos.     |
|-------|----------------------------------|---------------|
| 1.    | Data Science: Domain of AI       | 1 - 5         |
| 2.    | Computer Vision: Domain of AI    | 6 – 10        |
| 3.    | NLP: Domain of AI                | 11 – 15       |
| 4.    | Classification System used in AI | 16 – 20       |
| 5.    | Regression in AI                 | 21 – 25       |
| 6.    | Clustering Method in AI          | 26 – 30       |
| 7.    | Datasets & its Types             | 31 - 35       |
| 8.    | How Computer Vision Works        | 36 – 40       |
| 9.    | Examples of NLP                  | 41<br>onwards |

II. Do the Worksheet- CT&AI (Ch- AI Domains & Applications) and paste in computer notebook.

III. Make a Chart on “Number Systems”

# Worksheet- CT&AI

## Ch- AI Domains & Applications

### A. Multiple Choice Questions.

1. Which AI technique predicts numerical values?  
a) Classification  
b) Clustering  
c) Regression  
d) Detection
2. Which AI domain works with images and videos?  
a) NLP  
b) Data Science  
c) Computer Vision  
d) Science
3. Clustering is mainly used to:  
a) Predict marks  
b) Group similar data  
c) Translate language  
d) Detect spam
4. In classification, the output is:  
a) A continuous value  
b) A predefined category  
c) A random number  
d) A chart
5. In dataset division, which data is used for final evaluation?  
a) Training  
b) Validation  
c) Test  
d) Raw data

### B. Fill in the Blanks.

1. Regression predicts \_\_\_\_\_ values.
2. Clustering does not require \_\_\_\_\_ data.
3. Computer Vision works mainly with \_\_\_\_\_ and videos.
4. NLP helps machines understand \_\_\_\_\_.
5. A dataset is divided into training, validation, and \_\_\_\_\_ sets.

### D. True or False.

1. Regression predicts categories.
2. Clustering is a supervised learning method.
3. Test data is used to evaluate model performance.
4. Computer Vision can detect object locations.
5. NLP can analyse sentiment in text.

**E. Identify the AI Domain.**

| <b>AI APPLICATION</b>                         | <b>IDENTIFY THE TERM</b> |
|---|--------------------------|
| Analysing MRI scans                           |                          |
| Text summarization of long articles           |                          |
| Recommending products based on past purchases |                          |
| Grouping customers by buying behaviour        |                          |
| Chatbot answering customer queries            |                          |