

KENDRIYA VIDYALAYA GUNUPUR
WINTER BREAK HOLIDAY HOMEWORK 2025-2026
CLASS – VI

1. Define **perimeter** of a closed figure in one sentence.
2. A rectangle has length 12 cm and breadth 8 cm.
 - a) Write the formula for the perimeter of a rectangle.
 - b) Find its perimeter.
3. A square photo frame has side 7 cm.
 - a) Write the formula for the perimeter of a square.
 - b) Find the perimeter of the frame.
4. The sides of a triangle are 5 cm, 7 cm and 9 cm.
 - a) Write the formula for the perimeter of a triangle.
 - b) Find its perimeter.
5. A rectangular park is 150 m long and 120 m wide. The cost of fencing is ₹40 per metre.
 - a) Find the perimeter of the park.
 - b) Find the total cost of fencing.
6. A farmer has a rectangular field of length 230 m and breadth 160 m. He wants to fence it with 3 rounds of rope.
 - a) Find the perimeter of the field.
 - b) Find the total length of rope needed for 3 rounds.
7. A square park has side 75 m. Usha takes 3 rounds of this park.
 - a) Find the perimeter of the park.
 - b) Find the total distance covered by Usha.
8. A regular hexagon has each side 9 cm.
 - a) Write the general formula for the perimeter of a regular n-sided polygon.
 - b) Using this, find the perimeter of the hexagon.
9. A wire of length 36 cm is bent to form:
 - a) a square,
 - b) an equilateral triangle,
 - c) a regular hexagon.Find the length of each side in all three cases.
10. Define **area** of a closed figure in one sentence.
11. A floor is 5 m long and 4 m wide. A square carpet of side 3 m is laid on it.
 - a) Find the area of the floor.
 - b) Find the area of the carpet.
 - c) Find the area of the floor not covered by the carpet.
12. A rectangular piece of land is 12 m long and 10 m wide. In each corner there is a square flower bed of side 4 m.
 - a) Find the area of the whole land.
 - b) Find the total area of the four flower beds.
 - c) Find the area of the remaining land.
13. A rectangular coconut grove is 100 m long and 50 m wide. Each coconut tree needs 25 m² area.
 - a) Find the total area of the grove.
 - b) Find the maximum number of trees that can be planted.
14. The area of a rectangular garden is 300 m² and its length is 25 m.
 - a) Write the formula relating area, length and width of a rectangle.
 - b) Find the width of the garden.
15. On squared paper, a rectangle of area 24 square units is drawn. List all possible pairs of whole-number dimensions (length, breadth) whose product is 24. For each pair, compute the perimeter.
16. Draw a rectangle of size 12 units by 8 units on grid paper.
 - a) Find its area.
 - b) Draw another rectangle inside it (not touching the sides) whose area is exactly half of the outer rectangle. Mark its dimensions.
17. A rectangular field is 18 m long and 10 m wide. A triangular flower bed is made inside it with base 9 m and height 4 m.
 - a) Find the area of the field.
 - b) Find the area of the flower bed.
 - c) Find the area of the remaining part of the field.
18. When one whole item is divided into several equal parts, what is a **fractional unit**? Give any two examples.
19. One roti is shared equally among:
 - a) 2 children,
 - b) 4 children.Write the fraction of roti each child gets in each case and say which share is larger.
20. Represent the following fractions on a number line:
 - a) $\frac{1}{2}$,
 - b) $\frac{3}{4}$,
 - c) $\frac{5}{6}$.
21. Write the following as mixed fractions:
 - a) $\frac{7}{3}$,
 - b) $\frac{11}{4}$,
 - c) $\frac{19}{5}$.
22. Convert the following mixed numbers into improper fractions:
 - a) $2\frac{2}{3}$,
 - b) $4\frac{1}{5}$,
 - c) $3\frac{3}{4}$.
23. Express each fraction in lowest (simplest) form:
 - a) $\frac{16}{20}$,
 - b) $\frac{36}{60}$,
 - c) $\frac{126}{147}$.
24. Compare the following by using equivalent fractions with a common denominator. Use the symbols <, > or =:
 - a) $\frac{5}{9}$ and $\frac{4}{5}$
 - b) $\frac{3}{7}$ and $\frac{9}{21}$
 - c) $\frac{7}{12}$ and $\frac{11}{18}$.
25. Add the following fractions using the method of converting to a common denominator:
 - a) $\frac{1}{5} + \frac{3}{5}$
 - b) $\frac{2}{3} + \frac{1}{4}$
 - c) $\frac{5}{6} + \frac{1}{3}$.
26. Subtract the following fractions (first make denominators same, then subtract):
 - a) $\frac{5}{8} - \frac{3}{8}$
 - b) $\frac{7}{9} - \frac{4}{9}$
 - c) $\frac{3}{4} - \frac{2}{3}$.

WINTER BREAK HOLIDAY HOMEWORK

Subject: English Language & Literature

CLASS VI

General Instructions

- Homework should be done in **neat handwriting** in your English HW
- Originality will be appreciated.
- Submission date: **After Winter Break.**

A. Grammar

1. Revise **Parts of Speech**.

► Identify the nouns, verbs, adjectives, and adverbs in **any 10 sentences** from your English textbook.

2. Write **10 sentences** using:

- 3 nouns
- 3 verbs
- 2 adjectives
- 2 adverbs

B. Creative Writing

1. Write a **paragraph (120–150 words)** on:

“My Favourite Winter Morning”

2. Write a **short poem (8–10 lines)** on *Winter or Holidays*.

C. Reading Task

- Read **one story** from *Panchatantra / Children’s Classic*.
- Write:
 - Title
 - Main characters
 - Moral of the story

D. Creative Task

Winter Word Art

- Write **15 winter-related words** and decorate them creatively on an A4 sheet.

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WINTER BREAK HOLIDAY HOMEWORK

SUBJECT-SCIENCE CLASS – VI

1. What is temperature? How is it different from heat?
2. Name the different types of thermometers used in daily life.
3. Describe the construction and use of a clinical thermometer.
4. Why should a thermometer be shaken before use?
5. Write the precautions to be taken while measuring body temperature.
6. Explain how temperature is measured in laboratories?
7. Name the three states of water. Write one property of each state.
8. Explain the process of melting and freezing with examples.
9. What is evaporation? State any three factors affecting evaporation.
10. Describe the water cycle with the help of a neat diagram.
11. How does evaporation help in cooling? Explain with an example.
12. Differentiate between evaporation and boiling.
13. What is separation of substances? Why is it necessary?
14. Explain the method of handpicking and winnowing with examples.
15. What is sieving? Where is it used in daily life?
16. Explain sedimentation, decantation, and filtration.
17. Describe the process of evaporation used for separating salt from water.
18. Explain the method of churning and state its use in everyday life.
19. Why should we not touch the bulb of a thermometer while measuring temperature?
Explain the reason.
20. Explain how loading helps in the process of sedimentation. Give one daily life example.

शीतकालीन अवकाश गृहकार्य

विषय- हिंदी

कक्षा -6

(स्व-अध्याय)

1. अपनी पाठ्यपुस्तक की किसी एक कहानी या कविता को ध्यान से पढ़ें। उसका सार अपने शब्दों में लिखें। कहानी या कविता की सीख या संदेश को लिखें

(रचनात्मक लेखन)

2. निम्न में से किसी एक विषय पर अनुच्छेद लिखें

. शीतकालीन अवकाश में मेरी दिनचर्या

. पसंदीदा त्यौहार और उसका महत्व

(अनुभवात्मक एवं गतिविधि आधारित कार्य)

3. संगीत, कला, खेल या अन्य महत्वपूर्ण क्षेत्रों के प्रसिद्ध व्यक्तित्व के विषय में जानकारी एकत्र कर उनके विषय में संक्षेप में लिखें।

(भाषा अभ्यास)

4. पाठ्यपुस्तक से 5 संज्ञा, 5 सर्वनाम, 5 विशेषण शब्द छांटकर लिखें और प्रत्येक से एक एक वाक्य बनाइए।

(कला एवं अभिव्यक्ति)

5. पाठ्यपुस्तक की किसी कहानी या कहानी के भाव को चित्र माध्यम से व्यक्त करें तथा नीचे चार से पांच पंक्ति में बताएं कि चित्र क्या दर्शाता है।

SUBJECT – ARTIFICIAL INTELLIGENCE

Time : 1 Hour 30Mins

CLASS – VI

MAX. MARKS – 40

Tick the correct answer (6*1=6)

1. Which of the following domains of AI deals with human speech and language?

- a)NLP b)CV c) Both a) and b) d)Robotics

2. Artificial intelligence is the _____ and _____ of developing intelligent machines.

- a)math, science b) math, art c)art, science d)math, engineering

3. Our intelligence helps in which of the following?

- a) Draw conclusion from the facts b) Solve problems
c) Learn more d) All of these

4. An artificially intelligent robot will try to learn from every successful move and finally make its own

- a) Program b) scenario c) moves d) Rule-set

5. In the color model CMYK, what does K stand for?

- a) Grey b) Blue c) Black d) Red

6. In the color model RGB, what does B stand for?

- a) Grey b) Blue c) Green d) Red

True /false (7*1=7)

1. Some people are intelligent while other are utter fools.
2. Websites are the only source of bulk of data.
3. Chatbots are application of NLP.
4. Everyone is intelligent in different ways.
5. Maximum intensities of basic colors generate white color.
6. The data input need to be processed instantly is called real-time data.
7. There are only 2 domains of AI.

Fill in the blanks. (6*1=6)

1. _____ is an application of NLP.
2. Machines that execute voice command are able to understand_____.
3. A learning machine makes its own set of_____.
4. In routing apps like Google Map_____ coloured route indicates traffic jam.
5. _____ can be used to classify documents into various categories or genres.
- 6.The term _____ refers to an area of common application or practice.

Match up the following. (7*2=14)

Verbal intelligence	Empathetic, feelers, philanthropist
Fraud detection	Computer vision
CV	Our buying habits and preferences
Naturalistic intelligence	Composer, singers good listeners
NLP	Transfer a huge amount from one account to other
Musical intelligence	Love reading ,writing, compose poetries ,orators
Product recommendations	Natural language Processing

Write the answer of following questions. (7*1=7)

1. What do you mean by AI?
2. What is NLP?
3. Define Verbal Intelligence?
4. Name at least four types of intelligence?
5. What are digital assistants and chatbots?
6. Write down the domains of AI.
7. What is speech recognition and voice recognition?

1. द्वितीय आवधिक परीक्षायाः कृते पाठानाम् अभ्यास-कार्यस्य मौखिकं लिखितम् च पुनरावृत्तिं कुरुत। / आवधिक परीक्षा-2 के लिए पाठों का अभ्यास कार्य (नोटबुक तथा पाठ्यपुस्तक दीपकम् से) याद करो तथा लिखित अभ्यास करो।
2. अन्तर्जालस्य साहाय्येन परोपकारविषये दश-सुभाषितानां संग्रहणं कुर्वन्तु। / इंटरनेट की सहायता से परोपकार विषय पर 10 सुभाषित संग्रह करके लिखो।
3. एकतः पञ्चाशत् (1-50) पर्यन्तं सङ्ख्यां लिखन्तु स्मरन्तु च-/ एक से पचास (1-50) तक संस्कृत में संख्याएँ लिखिए तथा याद करें-
4. प्रतिदिनं संस्कृतपाठ्यपुस्तकस्य एकं पृष्ठं पठन्तु लिखन्तु च। / प्रतिदिन संस्कृत पाठ्यपुस्तक का एक पृष्ठ पढ़ें और लिखें।

Class 6 (SST)

KV GUNUPUR (Winter homework)

Landforms of the Earth

1. Describe the three major landforms – mountains, plains and plateaus – with examples.
2. How are mountains useful to humans? Explain in detail.
3. Describe the importance of plains for human settlement and agriculture.
4. Explain the role of wind, water and glaciers in shaping landforms.
5. Discuss how human activities are changing landforms and their impact.

DEMOCRACY PART 2

Short answer types

1. Who are the members of the Gram Sabha?
2. What is the executive body of the village called?
3. Who is the head of the Gram Panchayat?
4. What are the members of the Gram Panchayat known as?
5. Who elects the Gram Panchayat?
6. How many times does the Gram Sabha meet in a year?
7. How many levels are there in the Panchayati Raj system?
8. What is the village-level Panchayat called?
9. What is the block-level Panchayat called?

Long answer types

10. What is democracy? Write any two features of a democratic government.
11. Why is conflict resolution important in a democracy?
12. How does voting help people in a democracy?
13. Why are rules and laws important in a democratic government?