

# GURUKUL INTERNATIONAL SCHOOL, HALDWANI

## HOME WORK FOR WINTER BREAK (2025-26)

Class- VI

### ENGLISH –

- 1 Research and collect information about at least 3 Indian fallen Soldiers whose names are a part of National War Memorial. Paste their pictures and enlighten their story in brief. (You can either use a small scrap book or your notebooks)
- 2 As the poem 'The kites' in your literature books, Compose a short poem on 'The Butterflies'. (It should contain at least 3 stanzas)
- 3 Write the character sketch of Ila Sachani, after reading the chapter Ila Sachani: Embroidering Dreams with her feet.
- 4 Write a speech on "Positive attitude towards hardships of life".
- 5 Collect pictures and information about the cultural diversity of India, with reference to the chapter 'Incredible India', with focus on the states of Himachal Pradesh, Arunachal Pradesh, Kashmir, Sikkim and Ladakh.  
(Jot the information on the same scrap books as for question no.1)
- 6 While researching for question 5, did you find any similarities in the given states of Himanchal Pradesh, Andra Pradesh, Kashmir, Sikkim and Ladakh.  
Write 5 points you found closely similar from your research.

### MATHEMATICS –

- 1 Using ruler and compass, draw a circle of radius 4 cm. With the same radius, mark 6 equal points on the circle and join them to form a mandala-like pattern. Colour the design neatly to show symmetry.
- 2 Make groups of like and unlike fractions in the following:  
 $\frac{3}{10}, \frac{7}{9}, \frac{4}{10}, \frac{2}{15}, \frac{12}{15}, \frac{4}{9}, \frac{5}{9}, \frac{5}{11}, \frac{6}{15}, \frac{1}{17}, \frac{11}{15}$
- 3 Represent literacy rate (in %) of any 5 states of India with the help of Bar Graph using colourful paper.
- 4 Write and then arrange the fractions represented by shaded parts of the following in ascending order:



- 5 Collect 3 figures each (from magazines, newspapers, etc.) and mark vertical, horizontal and diagonal line of symmetry.
- 6 **Case Study: Solar Panel**  
The Sun is full of energy and solar energy comes from the sunlight that reaches the Earth. Solar energy can be converted into electrical energy by using solar cells. Solar cells are put together to make solar panels. These solar panels are put on rooftops of houses and offices to collect sunlight and turn into electricity.  
Solar energy is good for our environment as it does not cause pollution like coal and oil do. Residential systems usually employ slightly smaller panels as compared to commercial systems. Usually, smaller panels are 164 cm long and 99 cm wide. Larger panels may be 196 cm long and 99 cm wide.

**Choose the correct option for each of the following questions:**

- i) The perimeter of larger solar panel is  
a) 560 cm                      b) 570 cm                      c) 580 cm                      d) 590 cm
- ii) The area of larger solar panel is  
a) 19303 cm<sup>2</sup>                      b) 19404 cm<sup>2</sup>                      c) 19104 cm<sup>2</sup>                      d) 19204 cm<sup>2</sup>
- iii) The difference between the perimeter of the larger and the smaller solar panel is  
a) 46 cm                      b) 56 cm                      c) 64 cm                      d) 78 cm
- iv) The difference between the area of the larger and the smaller solar panel is  
a) 2868 cm<sup>2</sup>                      b) 3064 cm<sup>2</sup>                      c) 3168 cm<sup>2</sup>                      d) 3268 cm<sup>2</sup>

## SCIENCE–

- 1 **Define the following**  
a) Laboratory thermometer      b) Melting      c) Sedimentation      d) Natural resource
  - 2 If there were no natural resources on Earth, what problems would humans face? Write any three points.
  - 3 Visit a nearby science teacher, doctor, or elder at home and learn about the importance of clean drinking water. You may also collect information from books, newspapers, or the internet. Find out how many people in your locality use filtered or boiled water for drinking. If anyone in your family drinks unsafe water, explain to them the importance of clean water using the information collected.
  - 4 Draw neat and labelled diagram of types of thermometer.
  - 5 Write an experiment to show that air contains water vapour.
  - 6 Prepare a model showing conservation of natural resources (save water, save trees) using waste materials like waste bottles, cardboard, old newspapers and colours.
  - 7 **Case Study**  
Aim: To study filtration.  
Materials required: Sand, water, beaker, filter paper.  
Procedure:  
Mix sand with water and filter the mixture using filter paper.
- Answer the following**
- a) What remains on the filter paper ?
  - b) What is the clear liquid collected called ?
  - c) Name the method used in this activity.
  - d) Mention one daily life use of this method.

## SOCIAL SCIENCE–

- 1 My Favourite Historical Place .Write one page including:  
Name of the place, Location, Why it is famous.  
Paste/draw a picture
- 2 Define -  
a) Community  
b) Landforms  
c) Manuscript
- 3 Show domains of the earth with the help of a diagram.
- 4 Give 2 examples of each :  
a) Primary sector      b) Secondary sector      c) Tertiary sector
- 5 **Case study.**  
A region has steep slopes, thin soil, and very cold climate. People there wear thick clothes and depend on tourism and animal rearing. Another region nearby has flat land, fertile soil, and dense population.  
a) Identify the two landforms described.  
b) Why is farming difficult in the first region?  
c) Give two reasons for dense population in the second region.  
d) How do landforms affect occupation and lifestyle.

## HINDI –

- 1 आप भारत के किस स्थान पर रहते हैं ?  
वह स्थान आपको कैसा लगता है ? उस स्थान की विशेषताएं बताइए। संकेत बिंदु— प्रकृति, खानपान, जलवायु, प्रसिद्ध स्थान, मेले आदि।
- 2 आप तीन दिन के लिए किसी पर्वतीय क्षेत्र पर भ्रमण के लिए गए हैं। वहाँ पर आपने बहुत कुछ देखा और सुना। वहाँ के अनुभवों को डायरी के रूप में लिखिए।
- 3 **सार्वजनिक रूप से बोलना**  
प्रत्येक मौसम समाचार के विभिन्न माध्यमों (प्रिंट या शोसल मीडिया) के प्रमुख समाचारों में रहता है। संवाददाता कभी बाढ़ तो कभी सूखे या भीषण ठंड के समाचार देते दिखाई देते हैं। मान लीजिए कि आप एक संवाददाता हैं तो आप शीतलहर का आँखों देखा हाल किस प्रकार प्रस्तुत करेंगे ?
- 4 छात्र अपने क्षेत्र (जैसे उत्तराखंड) की लोक कथाओं या ऐतिहासिक घटनाओं से जुड़ी कहानी खुद बनाए और उसे चित्र बनाकर प्रस्तुत करें।
- 5 हिंदी महीनों (शक संवत्) के नाम क्रम से लिखिए तथा इन महीनों में आए प्रमुख प्राकृतिक परिवर्तन को भी लिखिए।

## COMPUTER –

### 1 **Define –**

- a) Cyber Threat
- b) Web Browser

2 What are the disadvantages of cyber crime ?

3 Draw a Flow Chart to check whether a number entered by the user is Even or Odd.

4 Write a program in Python to calculate the parameter of a rectangle.

### 5 **Case Study Based**

Priya writes two Python statements:

Print("Python Programming")

PRINT("Learning is fun")

The first statement works correctly, but the second one gives an error. She understands that Python does not recognize commands written in the wrong case.

- i) Which statement runs successfully ?
- ii) Why does the second statement give an error ?
- iii) What type of language is Python ?
- iv) Correct the wrong statement.