5- A water tank has steps inside it. A monkey is sitting on the topmost step (i.e., the first step). The water level is at the ninth step.

(i) He jumps 3 steps down and then jumps back 2 steps up In how many jumps will he reach the water level.

(ii) After drinking water, he wants to go back. For this, he jumps 4 steps up and then jumps back 2 steps down in every move. In how many jumps will he reach back the top step?

(iii) If the number of steps moved down is represented by negative integers and the number of steps moved up by positive integers, represent his move in part (i) and (ii) by completing the following.
(a) $-3 + 2 - $ ------ $= -8$ (b) $4 - 2$------$=8$. In (a) the sum ($-8$) represents going down by eight steps. So what will the sum 8 in (b) represent?

6- Arrange the following in descending order:
$\frac{2}{9}, \frac{2}{3}, \frac{8}{7}$

7- Find the angle which equal to its complement.

8- Find the angle which is equal to its supplement.

9- Can two angles be supplementary if both of them are:
(i) acute? (ii) obtuse? (iii) right?

10- Michael finished colouring a picture in $\frac{7}{12}$ hour. Vaibhav finished colouring the same picture in $\frac{3}{4}$ hour. Who worked longer? By what fraction was it longer?

Our Institutes

*Illuminating Global Education Through Indianic Values*

**NEW STANDARD GROUP OF INSTITUTES**

# HOME ASSIGNMENT 2023

N S G I

Name.....................................................

Class- 7          Sec. ............................

Branch.................................................

**Note:1- All the written work is to be done in the fair note book.**
**2- Prepare in all subject taught topics for test just on reopening of the school.**

हिन्दी—

1. किसी हिन्दी समाचार पत्र से प्रतिदिन एक पृष्ठ सुलेख 20 पृष्ठ की रफ कॉपी बनाकर लिखिए। (केवल 15 पृष्ठ)
2. शहर में बढ़ती चोरी की घटनाओं की शिकायत करते हुए पुलिस अधिकारी को पत्र लिखिए। (व्याकरण की अभ्यास पुस्तिका पर)
3. संज्ञा और सर्वनाम के भेदों की परिभाषा उदाहरण सहित कंठस्थ कीजिए।
4. वसंत पाठ्य—पुस्तक के पाठ—1 ''हम पंछी उन्मुक्त गगन के'' में प्रयुक्त संज्ञा और विशेषण शब्दों को छाँटकर तालिका बनाइए। (व्याकरण की अभ्यास पुस्तिका पर)

## ENGLISH-

1- Reader- Read Lesson- 2 completely and sort out difficult word meanings and Sort out Parts of Speech from page- 31.
2- Write a letter to the local police complaining about a theft that took place the previous night at your neighbour's flat.
3- Write a paragraph in about 100 words on the tour which you recently made in this summer vacation.

## SOCIAL SCIENCE-

1- To learn all taught syllabus related to I Periodic Test 2023 of History, Geography and Civics.
2- Explain in details about the Rock Cycle. Draw the figure of Rock Cycle .
3- In a political map of India show the following:
(a) River Narmada       (b) River Tapi (c) Neighbouring countries of India.

## SCIENCE-

1- On last Monday, Pankaj was dealing immense cough and cold. Besides this, he was suffering from a great headache. So, he  decided to take a leave on that day so that he could take some rest at his home. After one hour he thought to check his fever through a clinical thermometer, so before using it, he washed it and started shaking it very fast in his hand, so that the mercury level of thermometer gets reduced. At the same time, his elder brother  Vishwas scold him and suggested him to shake the thermometer slowly.
(a) State some precautionary measures while checking the fever through a  clinical thermometer.
(b) Is it necessary to shake the thermometer before using it.
2- Ajay's father works in a wool industry. In his line of work, he does the job of sorting the fleece of sheep into fibres of different qualities. Ajay noticed that his father and other workers who were doing the similar kind of jobs faced a number of health problems. Ajay discussed this problem with his friends and he came to know that his father is getting health problems due to the nature of his work. Ajay is worried about his father's health. He advised his father to take care of their health and told him about   the occupational hazards.
**Now answer the following questions.**
(i)  What do you mean by occupational hazard?
(ii) Name the diseases that workers suffer?
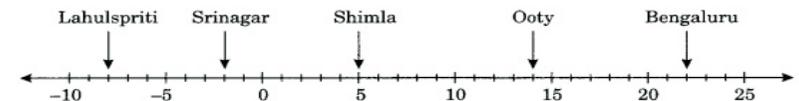(iii) How can most of the occupational hazards be minimised?

## COMPUTER-

1- Solve the given questions?
(i) $(101110)_2$-----------$(\ )_{10}$          (ii) $(001100)_2$----------$()_{10}$
(iii) $(64)_{10}$----------$()_8$          (iv) $(146)_{10}$----------$(\ )_2$
(v) $110010 + 1010$          (vi) $1011100 - 1010$
2- Explain about Internet of Things. Write any 2 applications of Internet things.
3- Write the uses of Artificial Intelligence in Health Care.
4- Write the steps to create an E-mail ID.

संस्कृत—

1. अपनी अभ्यास पुस्तिका से प्रथमः एवं द्वितीयः पाठ के प्रश्नोत्तर याद कीजिए।
2. रमा और फल के शब्द रूप याद कीजिए।
3. कंठ, तालु, मूर्धा और दंत से उच्चारित होने वाले वर्णों को याद कीजिए।
4. अपनी पाठ्य—पुस्तक से कोई दो श्लोक याद कीजिए।

## MATHS-

1- In a quiz, positive marks are given for correct answers and negative marks are given for incorrect answers. If Jack's scores in five successive rounds were 25,- 5,- 10,15 and 10, what was his total at the end?
2- Following number line shows the temperature in degree Celsius (°C) at different places on a particular day.



(a) Observe this number line and write the temperature of the places marked on it.
(b) What is the temperature difference between the hottest and the coldest places among the above?
(c) What is the temperature difference between Lahulspriti and Srinagar?
3- A plane is flying at the height of 5000 m above the sea level. At a particular point, it is exactly above a submarine flowing 1200 m below the sea level. What is the vertical distance between them?
4- Rita goes 20 km towards east from a point A to the point B. From B, she moves 30 km towards west along the same road. If the distance towards east is represented by a positive integer, then how will you represent her final position from A?