HOLIDAYS HOMEWORK

SESSION-2022-23

CLASS IX

ENGLISH

1)Prepare a tenses table and frame sentences using verbs-eat,run,cook.

2) Read E- newspaper daily and find out 10 difficult words daily and frame sentences on it also. Maintain a notebook for the same.

3)Read any E-Story Book and write a book review on it.Do it on A4 size sheets.

WRITING-

Use your creativity and write a short story in 200 – 250 words, with the help of the cues given below. Give a suitable title to the story.

It was Mohini's first day at the new school. She was feeling very nervous. She stood in a corner

and watched the students who were laughing and talking excitedly. When she saw four senior

students advancing towards her, she ... … …

ACTIVITY- Make a PPT based on any chapter from your textbook. (minimum 10 slides)

Read all the chapters done in class and write Q/A in your notebook.

● **Do the given assignment in your grammar notebook.**

. **Listen to these talks of wonderful people every week-**

● **No one can stop you if you are determined in your life**

● **.https://youtu.be/7fIL5s_Kq68** Dr. APJ Abdul Kalam's Life Advice Will Change Your Future (MUST WATCH) Motivational Speech

● **https://youtu.be/xQjp8wPylFs Sachin tendulkar's farewell speech showing gratitude towards everyone**

● **who contributed in his life.**

● **Learn and practice the habit of Gratitude. It brings magical change in life.**

PHYSICS
SESSION-2022-23

INSTRUCTIONS:-
1. ASSIGNMENT : Solve this Assignment in your fair Notebook
2. LEARNING : Learn chapter Motion
3. ACTIVITIES:
A. 1. PREPARE A PORTFOLIO ON THE TOPIC:
   ROLL NO: 1-15 GRAPHICAL REPRESENTATIONS OF MOTION
   ROLL NO: 16-30 EQUATIONS OF MOTION.
   2. PPT PRESENTATIONS ON
   (a) DISTANCE AND DISPLACEMENT.
   (b) Speed and acceleration.
   3. A Detailed Pictorial Tree Map of the different types of motion

ANSWER THE FOLLOWING QUESTIONS:
1. What is meant by the statement that rest and motion are relative terms?
2. Compare the S.I. units of distance and displacement.
3. A car is running on a heavily trafficated road having many flyovers. What is the type of motion of the car.
4. Why does second2 occur in the unit of acceleration.
5. A person standing at A goes to B by following any of the paths 1,2 or 3. Which path can we measure to find the average velocity.

6. Give differences between :
   (a) speed and velocity
   (b) Distance and displacement.
7. An object P is moving with a constant velocity for 5 minutes. Another object Q is moving with changing velocity for 5 minutes. Out of these two objects, which one has acceleration? Explain.
8. Displacement time graph of a body is shown in figure. What conclusion can be drawn abbot the Type of motion.
9. Out of four chidren A,B,C and D which child has the highest velocity?
10. Write position time relation of motion.
11. When are the displacement time graph and distance time graph similar?
12. Distance time graph of an object is a curve having decreasing slope, what do you say about the motion of the object.
13. Draw velocity time grapg for a uniformly accelerated object. Using velocity time graph derive velocity- distance relation.
14. Draw velocity time grapg for a uniformly accelerated object. Using velocity time graph derive position-time relation.

15.Differentiate between uniform linear motion and uniform circular motion.

16. What is the speed of an object performing circular path of radius r.

17. A body is moving along a circular path of radius R. Find the displacement of the body when it

   completes half a revolution.

18. Is uniform circular motion an accelerated motion.

19. A car accelerates uniformly from 18km/h to 36 km/h in 5s. Calculate the

   (a) acceleration

   (b) distance covered by the car in that time.

20.when will you say a body is in

   (a) uniform acceleration

   (b) non-uniform acceleration?

CHEMISTRY
Session (2022-23)

1. Revise all the NCERT questions and extra questions of Ch-1 i.e. Matter in our surroundings.
2. Solve the assignment in fair chemistry notebook.
3. Draw a 3D chart of A3 size on any one of the topic –

      a.   Matter and its characteristics
      b.   Physical states of matter and their characteristics
      c.   Elements, compounds and mixtures
      d.   Interconversion of states of matter
      e.   Evaporation and Boiling

4. Make a pictionary of 30 new words related to chemistry from the chapters of NCERT and also paste pictures related to the topic.
5. Make a short video of about 60-90 secs performing any one activity given in Ch-1 i.e. Matter in our surroundings.
6. Make a power point presentation or project on "Evaporation & Boiling "or "States of matter"

Fill in the blanks:-

1. Matter is made up of small_____.

2. The forces of attraction between the particles are _____ in solids, _____ in liquids and _____ in gases.

3. _____ is the change of gaseous state directly to solid state without going through liquid state, and vice-versa.

4. Evaporation causes _____.

5. Latent heat of fusion is the amount of heat energy required to change 1 kg of solid into liquid at its _____.

6. Solid, liquid and gas are called the three _____ of matter.

7. The smell of perfume gradually spreads across a room due to _____.

8. Rapid evaporation depends on the _____ area exposed to atmosphere.

9. As the temperature of a system increases, the pressure of the gases _____.

10. As the volume of a specific amount of gas decreases, it's pressure _____.

Multiple choice questions:-

Question 1.The quantity of matter present in an object is called its:

(a)Weight

(b)Gram

(c)Mass

(d)Density

Question 2.At higher altitudes:

(a)Boiling point of a liquid decreases

(b)Boiling point of a liquid increases

(c)No change in boiling point

(d)Melting point of solid increases

Question 3.The boiling point of alcohol is 78°C. What is this temperature in Kelvin scale:

(a)373 K

(b)351 K

(c)375 K

(d)78 K

Question 4.In which phenomena water changes into water vapour below its B.P.?

(a)Evaporation

(b)Condensation

(c)Boiling

(d)No such phenomena exist

Question 5.The boiling point of water on Celsius and Kelvin scale respectively is:

(a)373, 273

(b)0, 273

(c)273, 373

(d)100, 373

Assertion Reasoning Type Questions:-
For the following questions, two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below
   (i) Both A and R are true and R is correct explanation of the assertion.
   (ii)Both A and R are true but R is not the correct explanation of the assertion.
   (iii)   A is true but R is false. (iv)A is false but R is true.

   1. Assertion (A): Boiling is a bulk phenomenon.
   Reason (R): It takes place at room temperature.
   2. Assertion (A): In gaseous state particles move randomly in high speed.
   Reason (R): The particles of gases have least forces of attraction.

Very Short Answer Questions:-

   1.   Define matter.

   2.   Define diffusion.

   3.   What is latent heat of fusion?

   4.   What is dry ice?

   5.   Why are aquatic species more comfortable in cold water than hot water?

6. Why liquids and gases are called fluids?

7. Why can we compress sponge? Is it considered a solid?

8. What is the melting point of ice?

9. Which has more density: Liquids or Solids?

10. Why do we keep ether and acetone at cool places?

11. Name the process which occurs when a drop of Dettol is added in a bucket full of water.

TWO MARKS QUESTIONS

12. Differentiate between boiling and evaporation.

13. Why do we feel more cold after taking bath with hot water? Explain.

14. With the help of activity show that diffusion becomes faster with increase in temperature.

15. Define latent heat of vaporisation. What is the physical state of water at- 25 C.

16. State the characteristics of particles of matter.

17. A diver is able to cut through water in a swimming pool. What property of matter does this observation show?

THREE MARKS QUESTIONS

18. Give reasons for the following:
   a. Why does ice float on water?
   b. Why does a gas fill completely in the vessel in which it is kept?
   c. Latent heat of vaporization of two liquids 'A' and 'B' is 100 and 150 J/Kg. Which one will produce more cooling effect and why?

19. Tabulate the differences in the characteristics of states of matter.

FIVE MARKS QUESTIONS

20. Mention the four factors that affects the rate of evaporation.

21. Give reasons for the following:

a. Camphor disappears when kept for a few days.
b. Wet clothes do not dry easily on rainy days.
c. We sweat more on a humid day.
d. Sea water boils above 100 C
e. Water is liquid at room temperature.

HINDI
Session (2022-23)

1किन्हीं पाँच पर्वतारोहियों के बारे में जानकारी एकत्रित करके चित्र सहित लिखिए।

२ विद्यालय में आयोजित रक्तदान शिविर हेतु ए -4 साइज शीट पर एक विज्ञापन बनाइए।

३ ऑनलाईन शिक्षा ,स्वच्छता , लॉकडाउन , भ्रष्टाचार ,हिंदी भाषा आदि विषयों पर कोई दो -दो स्लोगन ए - 4 साइज शीट पर
   लिखिए।

4 रैदास अथवा रहीमदास जी की विस्तृत जानकारी एकत्रित करके ए - 4 साइज शीट पर लिखिए।

5 कोई एक स्वरचित कविता लिखिए तथा उसका वाचन करते हुए दो से तीन मिनट की वीडियो बनाइए।

6अपने मनपसंद खेल का वर्णन करते हुए अपने मित्र को पत्र लिखिए।

7 स्वच्छता का महत्त्व बताते हुए अपने छोटे भाई को पत्र लिखिए

8'कम्प्यूटर एक आवश्यकता विषय पर अनुच्छेद लिखिए।(कम्प्यूटर की उपयोगिता, कम्प्यूटर पर निर्भरता, कम्प्यूटर के परिणाम

9.वायु प्रदूषण से परेशान दो मित्रों के बीच संवाद लिखिए।

10.अभ्यास पत्रिका में दिए गये व्याकरण प्रश्नों को उत्तरपुस्तिका में हल कीजिए।

क-निम्नलिखित शब्दों से मूल शब्द एवं प्रत्यय पृथक कीजिए-

1. औद्योगिक …………… ………………

2. क्रोधित …………… ………………

3. वास्तविक …………… ………………

4. पढ़ाकू …………… ………………

5. अंकित …………… ………………

6. चिकनाहट …………… ………………

7. मिलान ………… ………………

8. लिखावट …………… ………………

9. आर्थिक …………… ………………

10.प्रसन्नता …………… ………………

11.समर्पित …………… ………………

12.पहाड़ी …………… ………………

13.प्रतिष्ठित …………… ………………

14. सपेरा ……………… ………………

15. कालिमा ……………… ………………

16. कृपालु …………… ……………

17. आनंदित …………… ………………

18. सौदागर …………… ………………

19. नैतिक …………… ……………

20. बहाव ……………

ख-निम्नलिखित उपसर्गों से दो-दो शब्दों की रचना कीजिए

1. अति …………… ……………

2. उप …………… ……………

3. प्रति …………… ……………

4. सम …………… ………………

5. ला …………… ……………

6. हम …………… ……………

7. बे …………… ………………

8. पुनर …………… ………………

9. दुस् …………… ……………

10. परि …………… ………………

11. आ …………… ……………

12. सामाजिक …………… ………………

13. अध …………… ……………

14. वि …………… ……

ग-निम्नलिखित शब्दों के प्रत्यय पृथक कर लिखिए

1. गुजराती
2. प्रसन्नता
3. स्वतंत्रता
4. शानदार
5. शारीरिक
6. लेखनीय
7. व्यक्तित्व
8. ग्रंथकार
9. लाडला
10. नम्रता
11. राजनीतिक
12. मलिन
13. मासिक
14. आंतरिक
15. कीमती

घ-निम्नलिखित प्रत्ययों से दो-दो शब्दों की रचना कीजिए

1. आई ....
2. ता ....
3. दार ....
4. ईय ....
5. त्व ....
6. मान ....
7. कार ....

8. इक ....

9. ई ....

10. पन ....

11. आपा ....

12. आलु ....

13. आहट ....

14. इत ....

15. आस ....

SUBJECT-BIOLOGY

Session (2022-23

INSTRUCTIONS:-

1. Solve this Assignment in your fair Notebook

2. Learn chapter life processes

3. Make Model According to your Roll No.

ASSIGNMENT

A. Very short answer Questions:-

1. Give one example of

(i) Apical meristem

(ii) Lateral meristem

2. Which chemical is deposited in the cell wall of

(i) Sclerenchyma

(ii) Collenchyma (at corners)

(iii) Cork

3. Name the complex tissue which helps in conduction of

(i) Water and minerals

(ii) Food

4. Name the cell which is attached to the lateral side of sieve tube

5. Which type of simple tissue is used for making ropes?

6. Give one example of protective tissue in plants?

7. Where do you find meristematic tissues in plants?

8. Name the two basic types of tissues found in plants?

9. Which tissue protects the entire body?

10. Give one example of connective tissue in which matrix is solid

11. Which type of connective tissue is present in hump of camel and blubber of whale?

12. Which tissue is commonly known as "packaging tissue"

13. Name the following:-

(i) Multinucleate muscle fibre

(ii) Spindle shaped muscle fibre

14. Which muscle gets fatigued very soon?

15. Name these:

(i) Process of neuron, which carries impulse away from cyton

(ii) Processes of neuron, which receives the impulse and passes it to cell body

16. Name the muscle of heart

17. Name one structure in our body which bears ciliated epithelium.

18. Name two parts of your body, made from cartilage.

19. Which tissue connects bone to another bone?

20. What type of matrix does bone has?

B. Short answers questions:

1. Animals of colder region and fishes of cold water have thicker layer of subcutaneous fat. Why?

2. If a potted plant is covered with a glass jar water vapours appear on its wall. Why?

3. Name the different components of xylem.

4. Classify the following on the basis of voluntary or involuntary muscles:

(a) Jumping of frog.

(b) Pumping of heart.

(c) Writing with hand.

(d) Movement of chocolate in your intestines.

5. Water hyacinth floats on water surface. Explain.

6. Which structure protects the plants body against the envasion of parasites ?

 Mention its other functions also.

7. We get crunchy and granular feeling when we chew pear fruit. Why?

8. Branches of a tree are able to move and bend freely in high wind velocity. Why

9. It's difficult to pull out the husk of coconut. Why?

10. List the characteristics of cork.

11. Why are xylem and phloem called complex tissue?

12. Meristematic cells have a prominent nucleus and dense cytoplasm but they lack vacuole. Why?

13. Why is blood considered to be connective tissue?

14. What are the functions of stomata?

15. What will happen if apical meristem is cut?

16. What will happen if cork is not formed in older stems and roots?

17. How many types of element together make a phloem tissue? Name them.

18. What is the specific function of cardiac muscle?

19. Give three functions of blood.

20. Distinguish between dendrite and axon.

21. Distinguish between striated or unstriated muscle.

22. Explain the structure of neuron with the help of a diagram.

23. Distinguish between bone and cartilage.

24. What is synapse? Explain

25. Identify the type of tissue in these:

(i) Skin

(ii) Bark of tree

(iii) Bone

(iv) Vascular bundle

(v) Inner lining of mouth

C. Long answer questions

1. Describe the structure and functions of various types of epithelial tissues.

2. Classify and explain various types of muscles with the help of suitable diagrams.

3. Define simple tissues. Classify and explain its different types with the help of suitable diagrams.

4. Classify connective tissues and their functions and locations.

5. Make a flow chart to explain various types of tissues in plants.

MODELS

1. Transverse Section of Stem (1-10)

2. Bacterial Cell (11-20)

3. Animal Cell (21-30)

H. H. W. (2021-22)   PART – 1

Subject - Mathematics

CHAPTER – 1 + (Recap of Previous Class)

PRACTICE QUESTIONS – 1

CLASS – IX

1. Every rational number is

    (a)   a natural number   (b)   an integer

    (c)   a real number   (d)   a whole number

2. Between two rational numbers there is/are

    (a)   no rational nunber   (b)   exactly one reational number

    (c)   infinitely many rational nubers

    (d)   only rational numbers and no irratioanl numbers

3. Decimal representation of a rational number cannot be

    (a)   terminating   (b)   non terminating

    (c)   non terminating repeating (d)   non terminating non repeating

4. The number $\sqrt{5}$ is

    (a)   an integer   (b)   a rational number

    (c)   an irrational number   (d)   none

5. The number 2.15115111511115 ..... is

    (a)   a rational number   (b)   an integer

    (c)   an irrational number   (d)   a whole number

6. The number 1.234787878...... is

    (a)   an integer   (b)   a rational number

    (c)   an irrational number   (d)   none

7. The value of $1.999 \ldots$ or $1.\overline{9}$ in the form $\frac{p}{q}$ of . Where p & q are integers and $q \neq 0$, is

   (a) $\frac{19}{10}$ (b) $\frac{1998}{1000}$ (c) 2   (d) $\frac{1}{9}$

8. The sum of $0.\overline{3}$ and $0.\overline{4}$ is

   (a) $\frac{7}{10}$ (b) $\frac{7}{9}$ (c) $\frac{7}{99}$ (d) $\frac{7}{11}$

9. In $7\sqrt{5}, \frac{7}{\sqrt{5}}, 77, \pi - 2$, rational number is

   (a) $\frac{7}{\sqrt{5}}$ (b) $\pi - 2$ (c) 77   (d) $7\sqrt{5}$

10. Every point on a number line represents:

    (a) integers   (b) rational number

    (c) irrational number   (d) a unique real number

11. The value of $\left(\frac{1}{3}\right)^3 \div \left(\frac{1}{3}\right)^\nu$ is equal to

    (a) $\frac{1}{27}$ (b) $\frac{1}{81}$ (c) 81   (d) 27

12. The value of $\left[\left(-\frac{3}{7}\right)^2\right]^{-1}$ is equal to

    (a) $\frac{9}{49}$ (b) $\frac{-9}{49}$ (c) $\frac{-7}{9}$ (d) $\frac{49}{9}$

13. If $5^{2x} \times 5^3 = 5^7$, then x is equal to

    (a) 2   (b) 5   (c) $\frac{1}{5}$ (d) 3

14. The value of $\left(\frac{4}{9}\right)^{-3} \times \left(\frac{-3}{2}\right)^{-3}$ is equal to

    (a) $\frac{27}{8}$ (b) $\left(\frac{2}{3}\right)^3$ (c) $\frac{-27}{8}$ (d) $\frac{-9}{4}$

15. $(-a^2 b)(abc) =$

(a) $-a^3bc$ (b) $-a^2bc^2$ (c) $-a^3b^2c$ (d) a^3b^3c

16. The value of $6a^2b^2 - 4ab$, where $a = 2$, $b = -1$ is

    (a)   0   (b)   16   (c)   32   (d)   12

17. The value of $\left(x+\dfrac{1}{x}\right)\left(x-\dfrac{1}{x}\right)$ is

    (a) $x^2+\dfrac{1}{x^2}$ (b) $x^2-\dfrac{1}{x^2}$ (c) $x^2-\dfrac{2}{x^2}$ (d) $x^2+\dfrac{1}{x^2}+2$

18. The greatest common factor of $9x^2y$, $27xy^2$ and $45x^2y^2$ is

    (a) $3x^2y$ (b) $9x^2y$ (c) $9xy^2$ (d) $9xy$

19. The factorisation of $9x - 18x^2$ is

    (a) $9(x-2x)$ (b) $9x(1-2x)$ (c) $-9x$ (d) $9x(1-3x)$

20. $27a^3b^2 \div (-9ab)$ is equal to

    (a) $-3a^2b$ (b) $-3ab^2$ (c) $-3a^2b^2$ (d) $-3ab$

21. The factorisation of $4a^2 - b^2$ is

    (a) $(4a + b)(4a - b)$ (b) $(2a + b)(2a - b)$

    (c) $4ab$ (d) $2ab$

22. Two adjacent angles of a parallelogram are $(3x + 20)°$ and $(2x + 10)°$, then the value of x is

    (a)   35   (b)   30   (c)   40   (d)   26

23. The lengths of diagonals of a rhombus are 24 cm and 10 cm, then the length of each side of the rhombus is

    (a)   13 cm   (b)   12 cm   (c)   14 cm   (d)   9 cm

24. The opposite angles of a parallelogram are $(2x - 3)°$ and $(45 - x)°$, then the value of x is

    (a)   16   (b)   18   (c)   12   (d)   20

25. Two diagonals of a rectangle are of length $(4x + 1)$ cm and $(2x + 15)$ cm, then the value of x is

   (a)   10   (b)   7   (d)   9   (d)   12

PRACTICE QUESTIONS – 2

1. Write True or False. Give reasons.

   (i) There is only one irrational number between two rational numbers.

   (ii) There are infinitely many integers between any two integers.

   (iii) There are numbers which cannot be written in the form p/q, q ≠ 0, p and q both are not integers.

   (iv) $\dfrac{\sqrt{2}}{3}$ is a rational number.

   (v) π is an irrational number

   (vi) All surds are irrational.

2. If zero a rational number? Can you write it in the form p/q, where p and q are integers & q ≠ 0.

3. Is (–25) a rational number? Give reasons.

4. Let x and y be rational and irrational number, respectively. Is x + y an irrational? Explain with the help of an example. [Hint. : Take surds for examples]

5. Give examples of two irrational numbers (take surds), the product of which is

   (a) a rational number   (b) an irrational number

6. insert two retional numbers between

   (a) 2/3 and 4/5   (b) $1.\overline{3}$ and $1.\overline{4}$ (c) $2.\overline{23}$ and $2.\overline{24}$

7. State four values of x for which $\sqrt{x}$ is a rational number.

8. Find two rational and two irrational numbers between each of the following pairs of real numbers.

   (a) 0 and 0.1   (b) $\dfrac{2}{5}$ and $\dfrac{1}{2}$ (c) 0.0001 and 0.001

   (d) 6.375289 and 6.37578   (e) $\dfrac{1}{7}$ and $\dfrac{2}{7}$

   (f) $\sqrt{5}$ and $\sqrt{6}$.

9. Express the following in the form p/q, where p & q are integers & q ≠ 0.

   (a) $0.12\overline{3}$ (b) $3.1\overline{45}$ (c) 2.5434343.....

10. Visualise the representation of $6.4\overline{7}$ on the number line upto 5 decimal places, with the use of successive magnification.

11. Show that $0.142857142857.... = \dfrac{1}{7}$

12. Simplify : (i) $\dfrac{25 \times t^{-4}}{5^{-4} \times 10 \times t^{-8}}$ (ii) $\dfrac{5^{-3} \times 20^{-1} \times 64}{4^{-3} \times 5^{6}}$

13. Express $\left[\left\{\left(\dfrac{-1}{4}\right)^{2}\right\}^{-2}\right]^{-1}$ in the p/q form.

14. Solve for x : $\dfrac{x-6}{4} - \dfrac{x-4}{6} = 1 - \dfrac{x}{10}$

15. Find the following products:

    (i) $\left(-\dfrac{5}{3}ab\right) \times \left(-\dfrac{4}{5}a^{2} + ab - 6b^{2}\right)$ (ii) $(x-y)(x^{2} + xy + y^{2})$

16. Use identity to find the following products:

    (i) (2x + 3y) (2x + 3y)   (ii) $(4x^{2} - 5)(4x^{2} - 5)$

17. Find the product using identity:

    (i) (3x + 4) (3x – 5)   (ii) $\left(2x + \dfrac{3}{y}\right)\left(2x - \dfrac{3}{y}\right)$

18. Factorise using identities

    (i) $p^{2} + 6p + 9$ (ii) $x^{3} - 64x$ (iii) $121x^{2} - 88xy + 16y^{2}$

19. Evaluate

    (i) $\sqrt{529} \times \sqrt{1369}$ (ii) $\sqrt{9\dfrac{67}{121}}$

20. Find the square root of 23.1 upto two decimal places.

PART – 2

APPLICATION BASED (CASE – STUDY)

1. Real numbers are combination of rational and irrational numbers. Rational numbers can be written in the form $\frac{a}{b}$, where a and b are integers and $b \neq 0$. Rational numbers are either terminating or non-terminating repeating.

   Irrational numbers are those numbers, which cannot be written in the form $\frac{a}{b}$. Irrational numbers are non-terminating non repeating.

The Real Number System
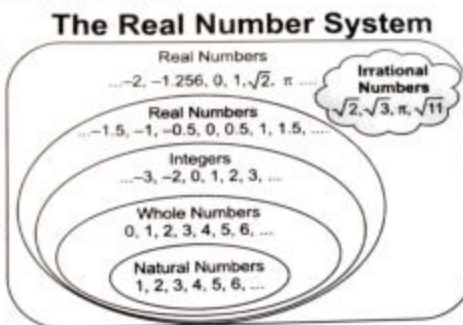
Now answer the following :

(i) Every rational number is a :
   - (a) A natural number
   - (b) A whole number
   - (c) An integer
   - (d) A real number

(ii) The product of two irrational numbers is :
   - (a) always rational
   - (b) always irrational
   - (c) always an integer
   - (d) sometimes rational and sometimes irrational

(iii) Between two irrational numbers :
   - (a) there is one rational number
   - (b) there is no rational number
   - (c) there are infinity many rational numbers
   - (d) there is no irrational number

(iv) Which of the following is an irrational number?
   - (a) $\frac{22}{7}$
   - (b) 3.141414....
   - (c) π
   - (d) 3.2757575...

(v) The sum of a rational and an irrational number is :
   - (a) irrational
   - (b) rational
   - (c) both (a) and (b)
   - (d) none of these

2. One day Sangeeta and Anjali were playing a game on parallel lines and the angles formed with the transversal line. First Sangeeta drew a straight line AB, then Anjali drew another straight line CD ∥ AB. Further, a transversal line PQ was drawn, which intersects lines AB and CD at points X and Y respectively.
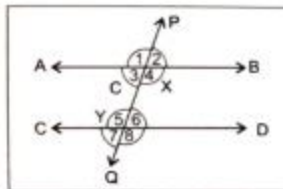
   Finally they marked the angles as shown.
   Based on the above paragraph, answer the following questions:

(i) The alternate angle to $\angle 6$ is :
   - (a) $\angle 1$
   - (b) $\angle 2$
   - (c) $\angle 3$
   - (d) $\angle 4$

(ii) The corresponding angle to $\angle 1$ is :
   - (a) $\angle 4$
   - (b) $\angle 5$
   - (c) $\angle 6$
   - (d) $\angle 7$

(iii) If $\angle 4 = 120°$, then the measure of $\angle 6$ is :
   - (a) $80°$
   - (b) $120°$
   - (c) $100°$
   - (d) $60°$

(iv) The sum of $\angle 3$ and $\angle 5$ is :
   - (a) $180°$
   - (b) $160°$
   - (c) $100°$
   - (d) $60°$

(v) $\angle 4 = \angle 5$, because these are :
   - (a) corresponding angles
   - (b) alternate angles
   - (c) cointerior angles
   - (d) vertically opposite angles

6

3. Gagan studies in class 9. His father is a carpenter. One day Gagan's father made a wooden box of external dimensions 40 cm × 30 cm × 20 cm. Then he painted the outer surface of the box.
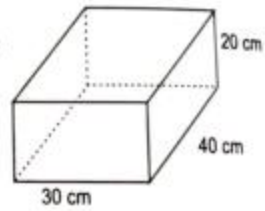
Now answer the following questions :

(i) The volume of the box is :

    (a) 24000 cm^3 (b) 1200 cm^3

    (c) 800 cm^3 (d) 600 cm^3

(ii) The lateral surface area of the box is :

    (a) 20000 cm^2 (b) 2400 cm^2 (c) 2800 cm^2 (d) 3000 cm^2

(iii) The total surface area of the box is :

    (a) 5000 cm^2 (b) 5200 cm^2 (c) 5400 cm^2 (d) 5500 cm^2

(iv) Length of all 12 edges of the cuboidal box is :

    (a) 250 cm   (b) 300 cm   (c) 320 cm   (d) 360 cm

(v) The longest rod that can be put in the box (assume its outer and inner dimensions are same) is :

    (a) $29\sqrt{10}$ cm   (b) $10\sqrt{29}$ cm   (c) $11\sqrt{35}$ cm   (d) $12\sqrt{5}$ cm

4. The weights of newborn babies (in kg) are recorded to maintain the health report cards in a hospital on regular basis. On a particular day the weights of newborn recorded are as follows:

3.1, 3.0, 2.9, 2.9, 2.8, 2.8, 2.7, 2.7, 2.6, 2.5, 2.5, 2.5, 2.3, 2.2, 2.1.

(i) The range of the data is :

    (a) 1.0 kg   (b) 2.1 kg   (c) 2.7 kg   (d) 2.0 kg

(ii) The no. of babies born on that day was :

    (a) 11   (b) 15   (c) 12   (d) 16

(iii) The no. of babies who weigh below 2.5 kg is :

    (a) 3   (b) 4   (c) 5.   (d) 6

(iv) The no. of babies who weigh more than 2.6 kg is :

    (a) 1   (b) 2   (c) 4   (d) 8

(v) The mode of the given data is :

    (a) 2.0 kg   (b) 2.8 kg   (c) 2.5 kg   (d) 2.7 kg

5. A teacher is a person whose professional activity involves planning, organizing, and conducting group activities to develop students' knowledge, skills, and attitudes as stipulated by educational programs. Teachers may work with students as a whole class, in small groups or one-to-one, inside or outside regular classrooms. Usually teachers' teaching skills are measured according to their age and work experience. The given histogram shows the distribution of ages (in years) of primary school teachers in a district.
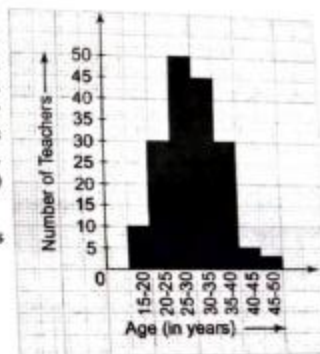
Look at the histogram and answer the following questions

(i) Lower limit of the first class interval is :

    (a) 15   (b) 20

    (c) 17.5   (d) 5

(ii) Class limits of the fourth class interval is :

    (a) 25 – 30   (b) 30 – 35   (c) 40 – 45   (d) 45 – 50

(iii) Class mark of class 45 – 50 is :

    (a) 45.5   (b) 47.5   (c) 54.5   (d) 55.5

(iv) The class size is :

    (a) 4   (b) 5.5   (c) 5   (d) 6

(v) Maximum number of teachers fall in the age group :

    (a) 25 – 30   (b) 30 – 35   (c) 35 – 40   (d) 45 – 50

8

ART INTEGRATION

Dear students

Art integration project is a fun filled activity, where in you will learn and enjoy. You are required to perform 2 activities . To help you understand and perform these activities examples are attached here with.

ACTIVITY-1

You will draw any one article of your choice and fill it with mathematics creatively, you may write mathematical formulae or can solve any question as shown . (See first two pages attached.)
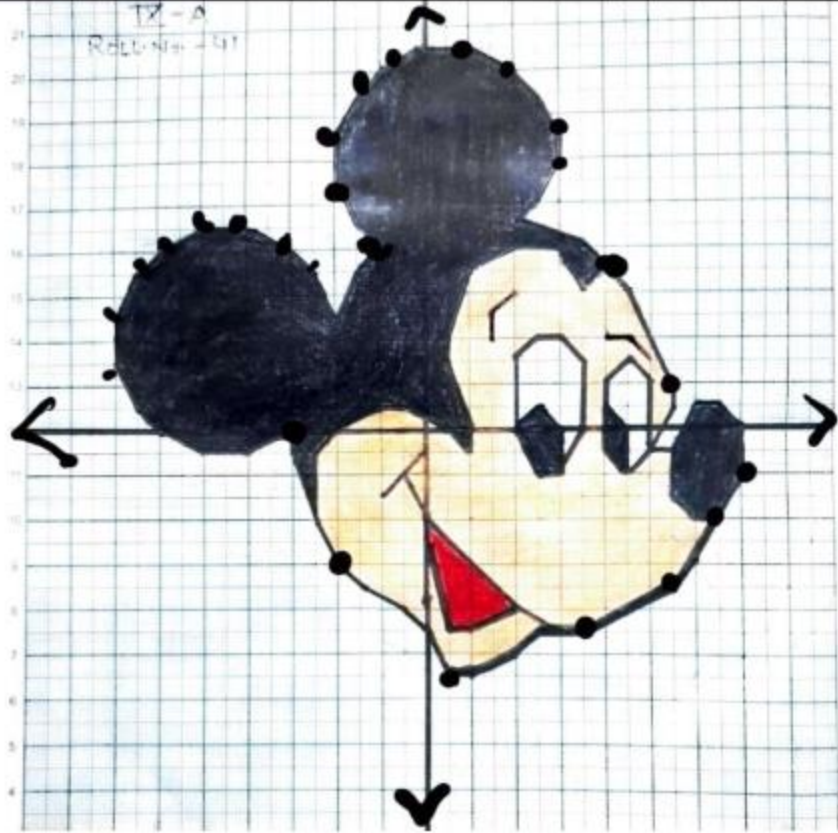
ACTIVITY-2

Take a graph paper draw Cartesian Plane and then draw any one figure of your choice and write the coordinates of all the points used to draw the outline of your figure. You will then colour your figure to make it attractive (See in the last two pages attached)
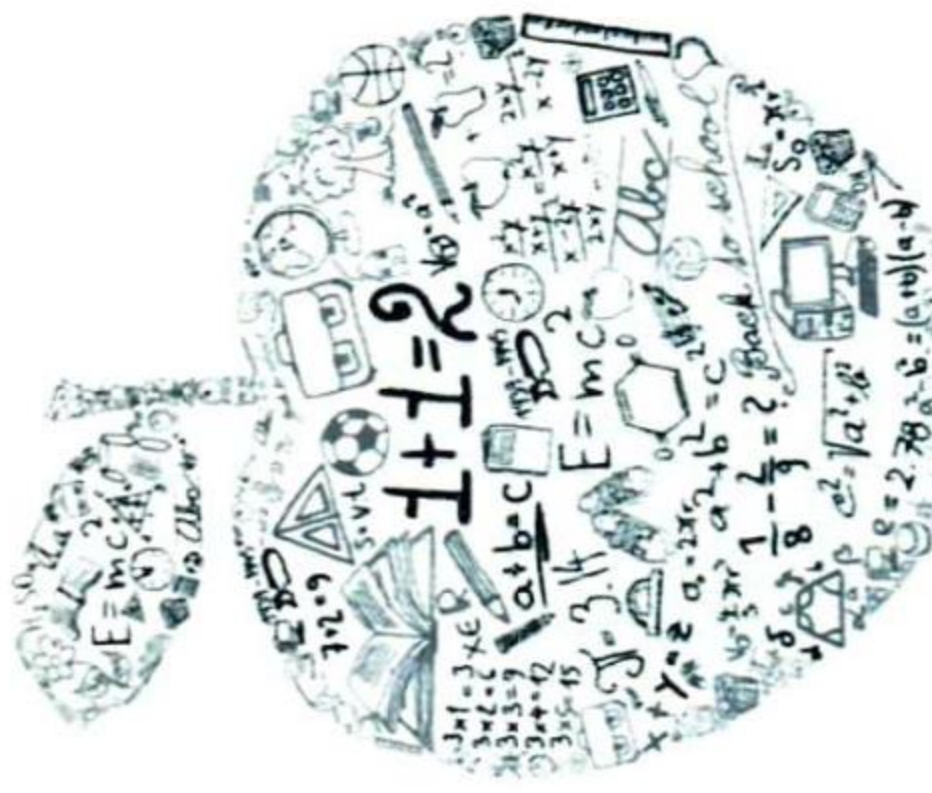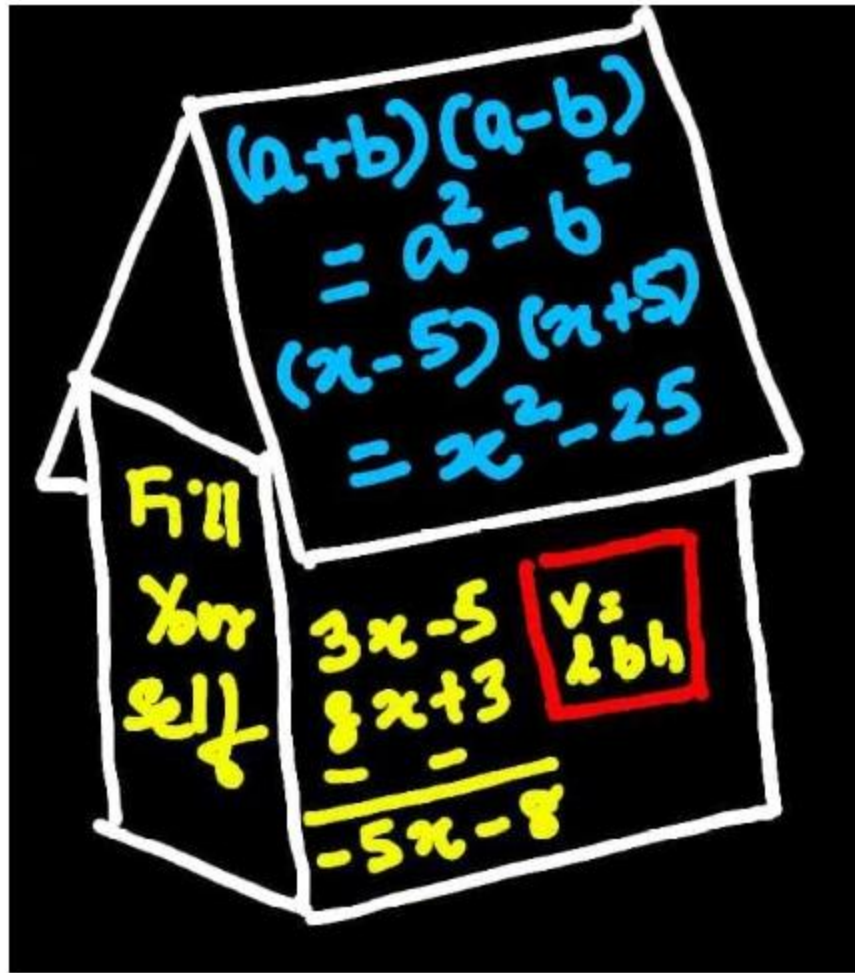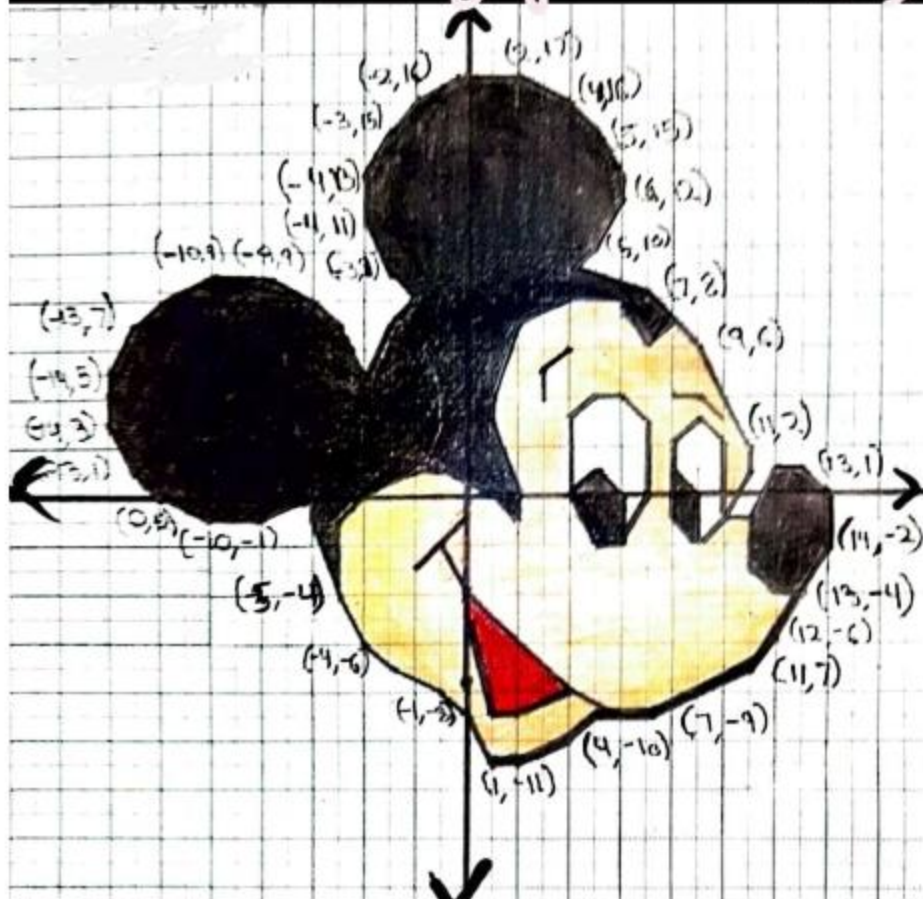
Sketch the line and point drawing (step 1)

Write the co-ordinates of the points used to draw the figure (step 2)

SOCIAL SCIENCE
Session (2022-23)

Learning Work:
Geography: Chapter 1 (India: Size and Location.)
History: Chapter.1 (The French Revolution)
Civics: Chapter.1 (What is Democracy? Why Democracy?)
Economics: Chapter 1 (Story of Village Palampur)
             Chapter.2 (People as a Resource)

Writing Work:
Solve the below given Assignment in your fair Notebooks.

Creative Work:
Prepare a project on different types of disasters. Classify different disasters and write their Pre, During and Post
plannings for a disaster. (15-20 pages)

Assignment

Geography:

1. What is the distance of India from north-south?   (1)
2. When did the Suez Canal open?   (1)
3. Complete the following table with correct information with regard to India :   (1)

India	Latitude which passes at almost middle	Longitude which decides the time zone
	?	?

4. What is the total Geographical area of India?   (1)
5. Name any two nations which are larger than India?   (1)
6. The Sun rises two hours earlier in Arunachal Pradesh as compared to Gujarat in the west but watches show the same time. How? Explain with three suitable reasons.   (3)
7. Why do the days and nights are almost of equal duration at Kanyakumari?
8. What do you mean by IST, GMT & Palk Strait?   (1,1,1)
9. What do you know about the neighbors of India?   (5)
10. The Central location of India at the head of the Indian Ocean is considered of great Significance. Why? (Any four points)?   (5)

Economics:

11. In which type of unemployment people appear to be employed?   (1)
(a) Seasonal unemployment
(b) Disguised unemployment
(c) Educated unemployment
(d) All type of employment
12. Which of the following ways can you not consider as an investment in human capital formation? (1)
(a) Education   (b) Medical treatment   (c) Cash Reward   (d) Training
13. Machinery, work plants, equipment's, new technology, buildings are the example of: (1)
(a) Human Capital   (b) Fixed capital   (c) Working Capital   (d) Technology
14. How many educational institutions are there in the village Palampur?   (1)
15. What does "Human Capital" mean?   (1)
16. Define Working Capital.   (1)
17. What do you understand about the Green Revolution?   (1)
18. Name the main factors of production?   (1)
19. Define the term 'literacy rate'?   (1)

20. When does population become human capital? (1)

21. (A) How do medium farmers and large farmers obtain capital for farming? (Any two points)
(B) How is it different from the small farmers? (Any one point) (2, 1)
22. What are the three different ways of increasing production on the same piece of land? (3)
23. Is it important to increase the area under irrigation? Why? (Any three points) (3)
24. Suggest any three ways to transform population load into an asset. (3)
25. Differentiate between disguised unemployment and seasonal unemployment? (3)
26. What is the role of health in human capital formation? (Any three points) (3)
27. Modern farming methods require more inputs which are manufactured in Industry?
Do you agree? Give any five points to support it. (5)
28. What is the role of education in human capital formation? (Give five points) (5)
29. What is meant by the Green Revolution? Mention some of its important features. (Four points) (5)
30. What different strategies should be made by the government to solve the unemployment problem in India. (Any five points) (5)

Civics:
31. Name the country where women do not have the right to vote till 2015. (1)
32. What conclusion can we draw from the politics of Zimbabwe? (Choose the correct option) (1)
(a) Some countries do not need democracy.
(b) Popular governments can be undemocratic.
(c) All Democratic countries do not share similar features.
(d) Democratic countries are fragile.
33. How can you say that China is not a democratic country? (1)
34. What is the most common form of democracy in the modern world? (1)
35. Define the term 'Dictatorship'. (1)
36. Mention any three features of democracy? (3)
37. How does democracy improve the quality of decision making? (Any three points) (3)
38. Explain any three differences between democratic country and non-democratic country. (3)
39. Discuss merits and demerits of elections in a democracy? (5)
40. 'Democracy is all about political competition and power play. There is no scope for morality'. Justify the statement by giving arguments against democracy. (5)

History:
41. What did the French Revolution of 1789 stand for? (1)
42. Why did the French government increase the taxes? (1)
43. Explain the term 'republic'. (1)
44. Why was Louis XVI sentenced to death? (1)
45. How did Napoleon Bonaparte come to power? (1)
46. Describe the divisions of French society before the French Revolution. (3)
47. How did women suffer in France during the Old Regime? (3)
48. State any three symbols in France which were used during the French Revolution? (3)
49. Explain any five circumstances which were responsible for the outbreak of the French
Revolution of 1789? (5)
50. Mention any five points about the "Reign of Terror" in France. (5)

Information Technology
Session (2022-23)

Q1.Microsoft Word is a word processor developed by Microsoft. It was first

released in 1983 under the name Multi-Tool Word for Xenix systems.MS Word is a popular word-processing program used primarily for creating documents such as letters, brochures, learning activities, tests, quizzes and students' homework assignments. There are many simple but useful features available in Microsoft Word to make it easier for study and work. That's why

so many people would prefer to convert the read-only PDF to editable Word

PRACTICAL -1
* Type the paragraph above as it is using "Calibri font" , font size 12.
* Change the font type to "Lucida Calligraphy" and size to 14
*Alignment to your paragraph to right margin.
* Save this file as ms-word.doc in "my documents" folder using save as option.
* Edit some part of your document and save again using save option.
* Close the file.
* Open this file again using open option from office button.
*View the file you have created using print preview option.
*Take a print out of this document through print option.

PRACTICAL -2 .Make a PPT on CYBER CRIME (Minimum 10 Slides)

PRACTICAL -3 .Make a cover page for practical file on PowerPoint/Ms Word.

<u>**Introduction to Financial Markets**</u>
<u>**Session (2022-23)**</u>

Prepare one project file on the topic: (10-12 pages)
"Money": What is it, History of money, Different forms of Money, Evolution of Money, Modern forms of Money, Characteristics, and its functions.

<u>**SUBJECT:MARKETING AND SALES**</u>
<u>**Session (2022-23)**</u>

#Prepare any one Project from the following topic:
1) **Introduction to Marketing and Sales**
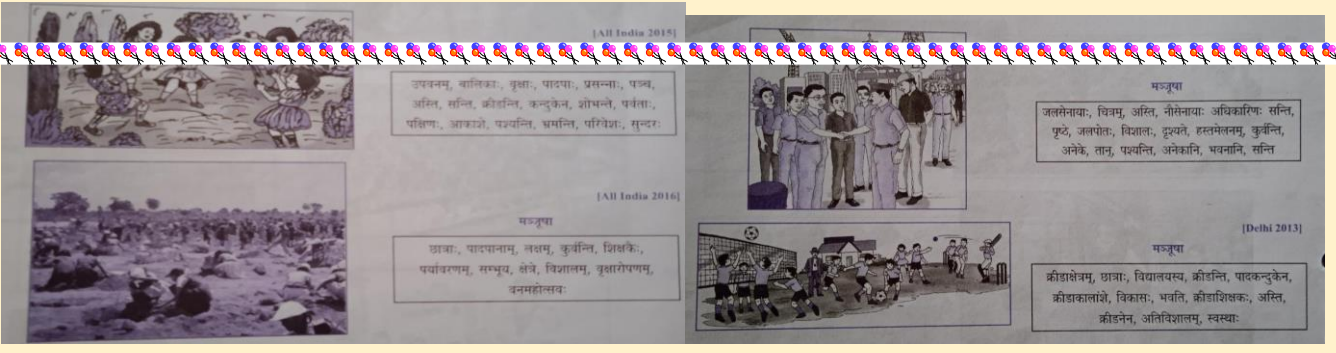2) **Concept of Market**
3) **Competition**
4) **Concept of Marketing**

Note:- Minimum 10-15 pages required.

<u>**संस्कृत**</u>

<u>**ग्रीष्मकालीन गृहकार्य**</u> **(2022-23)**

प्रजेक्ट कार्य

1. **महाकवि भास, बाणभट्ट, विशाखदत्त, महर्षि चरक, कौटिल्य, संस्कृत लेखकों की सचित्र जीवनी व उनकी कृतियो का उल्लेख।**

2. **भारतीवसंत गीति पाठ के किन्ही दो श्लोकों के हिन्दी अर्थ सहित ।**

   1. **चित्र वर्णन उत्तरपुस्तिका में कीजिए ।**

2. कीन्ही 10 वाक्यों का संस्कृत अनुवाद कीजिए।

- व्यवहार कुशलता सफलता देती है।
- माता का स्पर्श बच्चे के लिए वरदान होता है।
- साधु-संगति मार्गदर्शन करती है।
- चश्मा व्यक्ति को देखने में सहायता करता है।
- जन्म और मृत्यु ईश्वर के अधीन हैं।
- स्वस्थ रहने के लिए उत्तम वायु व भोजन आवश्यक हैं।
- ईश्वर की भक्ति सुख-शांति और तृप्ति देती है।
- श्रीकृष्ण महापुरुषों में पूजनीय हैं।
- मेरा भाई दसवीं कक्षा में पढ़ता है।
- परमात्मा सबको सद्बुद्धि दें।
- कर्म करने में ही हमारा अधिकार है।
- संस्कृत सब भाषाओं की जननी है।

3. स्वेच्छा से श्लोक गायन अथवा शिक्षा प्रदान करे ऐसे विषय को प्रस्तुत करते हुए संस्कृत भाषा मे 1 से 2 मिनट की वीडियो बनाकर विषयाध्यापक के पास भेजे।

4. कक्षा में कराया गया सभी कार्य उत्तर पुस्तिका में पूरा कीजिए एवं पुनरावृत्ति कीजिए।

Happy Holiday!!