Holiday Homework 2023-24

Class – IX

ART INTEGRATION

Make a scrap book documenting the different dance styles of

Lakshadweep, Andaman & Nicobar Islands.

ENGLISH

General Instructions

• Question No I, II, IIII & I to be done using A4 size sheets. You may use

different colours A4 size sheets. Compile in a hard bound file/folder.

Design an attractive cover for your file/folder.

• Name, class & section should be written neatly.

• Question No iVto be done on a Chart paper.

I.Make a pictorial project on the life of the poet- Robert Frost depicting

the life events, **awards and literary works in about 5-6 pages.**

II. Write a story on any of the given topics.

Science Fiction

Adventures

Mystery / Suspense

Comedy / Humour

Family Drama

歩いて行くという森の旅

III. Write a factual paragraph in about 150 words on

Roll No	Topic
1-10	Evelyn Glennie (Refer lesson 2 in Beehive) 11-
20	APJ Abdul Kalam (Refer lesson 6 in Beehive)
21-30	Santosh Yadav (Refer lesson 7 in Beehive)
31-35	Maria Sharapova (Refer lesson 7 in Beehive)
36 – 40	ALBERT EINSTEIN (Refer lesson 4 in Beehive)
41 – 46	USTAD BISMILLAH KHAN Refer lesson 2 in Beehive)

Also, paste pictures of the given personalities.

IV. Make a chart on any one of the following topics of grammar:-

Roll No	Topic
1 – 5	Present Tense
6 – 10	Past Tense
11 – 15	Future Tense
16 – 25	Modals
25 – 35	Determiners
36 – 40	Subject Verb Agreement
41 – 46	Reported Speech

HINDI

歩いて行くという森の旅

दिया गया गृह कार्य A 4 शीट्स पर करना है और फाइल में लगाना है|

1. भारतीय संविधान में अनुसूचित 22भाषाओं का उल्लेख कीजिए तथा आपके जीवन में भाषा के प्रभाव को स्पष्ट कीजिए।

2. विद्यालय की वार्षिक पत्रिका के लिए कोई स्वरचित कहानी ,कविता अथवा आपने ग्रीष्मावकाश कैसे व्यतीत किया पर अनुच्छेद लेखन करें।

3.रहीम के दोहे पर चित्र सहित परियोजना कार्य बनाएं तथा उनके जीवन काल की रचनाएं,भाषा शैली आदि की जानकारी लिखें (आकर्षक कवर पेज बनाएं)

4. गिल्लू कहानी में पशु पक्षियों तथा मानवीय पहलू को किस प्रकार व्यक्त किया है वर्णन कीजिए।

5.रैदास ने किस प्रकार ऊंच -नीच, जात -पात पर अपने दोहों के माध्यम से व्यंग किया है क्या आप मानते है यह कुरीति अभी भी व्याप्त है।

6. छायावाद के किन्हीं पांच कवियों के जीवन पर आधारित चित्रों का कोलाज बनाइए।

7.नारी सशक्तिकरण पर 150 शब्दो मे अनुच्छेद लिखे और कुछ प्रमुख क्षेत्रों की महिलाओं के चित्रों की स्क्रैप बुक तैयार करें।

8. दुःख का अधिकार कहानी समाज के किस कटु सत्य को उजागर किया है तथा इस कहानी ने आपके हृदय को किस प्रकार प्रभावित किया है टिप्पणी करें।

9. अपने अनुक्रमांक के अनुसार प्रोजेक्ट बनाएं (चार्ट, मॉडल, वर्किंग

मॉडल)

1-10: आर्टिफिशियल इंटेलिजेंस और हम

11-20: भारत के विभिन्न लोक भाषाओं के गीत और उनके प्रमुख लोक गायक

21-30: SCO समूह का भारत में आयोजन

31-40: ई – कचरा क्या है और रोकथाम के उपाय

40-45: सोशल मीडिया और युवा पीढ़ी

MATHEMATICS

Models of Mathematics

ROLL NO	TOPIC
1 to 3	Modal of Square Root Spiral STAIRS
4 to 6	Make a Working Model of Co-ordinate Geometry from 2-D to 3-D.
7 to 9	Angle Sum Property of Quadrilaterals Model
10 to 12	Area of Rhombus Model
13 to 15	Representation of Numbers in a number line Model
16 to 18	Cartesian Plane in Coordinate Geometry Model
19 to 21	the total Surface area of a Cuboid Model
22 to 24	Euclid's Geometry Model
25 to 27	Types of Triangles Model

歩いて行くという森の旅

Solve the Given Worksheet of ch.1 and 2 in a separate

Notebook

WORKSHEET:- 1

Number System

1. Write first five whole numbers in $\frac{p}{q}$ form, where p and q are integers and $q \neq 0$

2. Find decimal expansion of $\frac{17}{8}, \frac{3}{15}, \frac{2}{7}, \frac{50}{3}$.

3. Find four rational numbers between $\frac{2}{9}$ and $\frac{3}{7}$.

4. Find decimal form of $\sqrt{23}$ and $\sqrt{24}$ upto 3 decimal places.

5. Find two Irrational numbers between $\sqrt{23}$ and $\sqrt{24}$.

6. Find one Irrational and one rational number between 2 and $\sqrt{5}$.

7. Write two numbers whose decimal expansions are terminating.

8. What can be the maximum number of digits in the repeating block of digits in the decimal expansion of $\frac{5}{7}$?

9. Write two numbers whose decimal expansions are non-terminating non-repeating (non-recurring).

10. Find the value of $(256)^{0.16} \times (256)^{0.09}$

11. Find two Irrational numbers between 2016 and 2017.

12. Represent $\frac{-7}{5}$ on the number line.

13. Represent following on number line

i) $\sqrt{5}$ ii) $\sqrt{13}$ iii) $\sqrt{9.3}$ iv) $\sqrt{2}$

14. Represent $3 + \sqrt{2.6}$ on the number line.

15. Insert two Irrational numbers between $\frac{2}{3}$ and $\frac{3}{2}$

歩いて行くという森の旅

WORKSHEET :- 2

Polynomial

1. Write the coefficient of y^3 in $5y^3 + 2y^2 - y + 5$

2. Find the coefficient of x^2 in $(x^2 - 1)(x - 2)$

3. If $(x - 2)$ is one of the factor of $3x - 2a$, then find the value of a.

4. Find the degree of polynomial $\dfrac{x^3 + 3x - 1}{5} - \dfrac{5}{2}x^2 - x^5$

5. If $p(x) = x^3 - 3x^2 + 2x - 3$ find the value of $p(1) + p(-1)$.

6. Find zeros of the polynomial $z^2 - 8$

7. Divident = Divisor × Quotient + _____.

8. Give an example of Trinomial of degree 3.

9. Give one example of each monomial, binomial and quadratic polynomial.

10. Check whether $x = 3$ is a zero of polynomial $x^2 - 3x + x - 3$.

11. Write the degree of the polynomial $\sqrt{7}$

12. If one of the zero of polynomial $3x^2 + 5x + k$ is -1, then find out the value of k.

13. Express $4x^2 - 4x + 1$ as a square of binomial.

Part – B

14. Check whether $q(x)$ is a multiple of $r(x)$ or not.

    If $q(x) = 2x^3 - 11x^2 - 4x + 5$, $r(x) = 2x + 1$

15. Show that $(x - 5)$ is a factor of $x^3 - 3x^2 - 4x - 30$ by Remainder theorom.

16. Evaluate by using suitable identity : $(997)^3$

Chemistry

Do ncert line to line reading of the chapter- matter in our surroundings and prepare it for PA-1.

Explore and find out the answers of the following questions and do it in notebook:-

Many modern tanks for water and liquid fuels are made spherical in nature. What could be the reason behind this?

Ramesh has to pour out boiling hot water into a glass. He has four glasses of the same size but of different THICKNESSES. Which of them is LEAST LIKELY to break, if hot water is poured into it?

Which phase change at standard temperature and pressure represents sublimation?

A student wishes to test whether adding a substance (called an anti-freeze) to water lowers the freezing point of the water. Measuring which of these variables will help her arrive at a conclusion?

Both AIR CONDITIONERS and AIR COOLERS can be used to cool rooms. What is the main difference in the effect they produce?

A lump of bread dough in a baking tin contains air and carbon dioxide released by the yeast cells. When heated the dough rises to about twice its size. In this case, the increase in temperature has resulted in _____.

Rama suspects that the LPG cylinder is leaking, and immediately turns the cylinder valve to the OFF position. What should she do next?

When a substance changes from LIQUID to GASEOUS state, it is said to EVAPORATE. Some substances change from SOLID to GASEOUS state without passing through the LIQUID state. They are then said to

People sometimes add salt to the water in which eggs are to be boiled. What is the MAIN reason for this?

Make a list of evaporation phenomena activities which happen in our surroundings to understand evaporation uses.

Write the boiling point of any five liquids.

3. Make a project on any topic from Chapter- matter in our surroundings (it can be in the form of handwritten or power-point presentation).

4 Read in text activities from activity 1.1 to 1.9 and extract out the conclusion from each activities and prepare a report of it .(on A4 size sheets)

歩いて行くという森の旅

Biology

1) Learn and write the Answers of the Questions from the

Ch-Fundamental Unit of Life (NCERT Book) in a separate Copy.

2)Make a model of Plant or Animal Cell.

PHYSICS

1.Do given assignment of Chapter - Motion in fair note

book.

2.Practice all solved examples and exercise questions

of Ch – Motion.

歩いて行くという森の旅

CLASS IX

ASSIGNMENT QUESTIONS
MOTION

Multiple Choice Questions

1. If the displacement of an object is proportional to square of time, then the object moves with
   (a) uniform velocity
   (b) uniform acceleration
   (c) increasing acceleration
   (d) decreasing acceleration

2. The distance time graph of a body coincides with its time axis. The body must be
   (a) in uniform motion
   (b) at rest
   (c) in uniformly accelerated motion
   (d) in zig-zag motion

3. From the given $v - t$ graph (see below Fig.), it can be inferred that the object is
   (a) in uniform motion
   (b) at rest
   (c) in non-uniform motion
   (d) moving with uniform acceleration
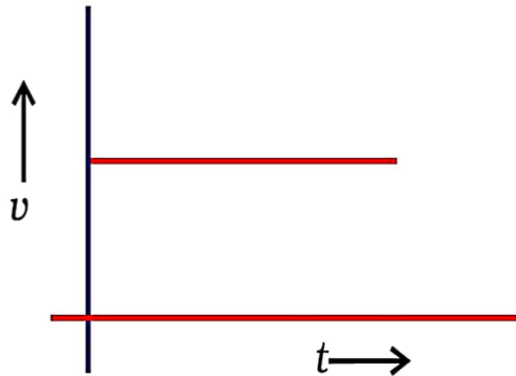
4. The velocity time graph of a body is parallel to the time axis. The body is
   (a) at rest
   (b) having uniform acceleration
   (c) having zero acceleration
   (d) having non-uniform acceleration

5. A particle is moving in a circular path of radius r. The displacement after half a circle would be:
   (a) Zero
   (b) πr
   (c) $2 r$
   (d) $2\pi r$

7. The numerical ratio of displacement to distance for a moving object is
   (a) always less than 1
   (b) always equal to 1
   (c) always more than 1
   (d) equal or less than 1

8. Suppose a boy is enjoying a ride on a *merry-go-round* which is moving with a constant speed of 10 m/s. It implies that the boy is
   (a) at rest
   (b) moving with no acceleration
   (c) in accelerated motion
   (d) moving with uniform velocity

9. Area under a $v - t$ graph represents a physical quantity which has the unit
   (a) m^2
   (b) m
   (c) m^3
   (d) m/s

10. Four cars A, B, C and D are moving on a levelled road. Their distance versus time graphs are shown in below Fig.. Choose the correct statement
    (a) Car A is faster than car D.
    (b) Car B is the slowest.
    (c) Car D is faster than car C.
   (d) Car C is the slowest.
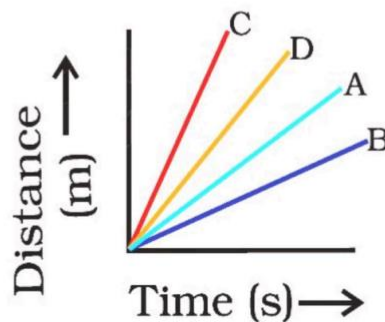
11. Slope of a velocity – time graph gives

    (a) the distance
    (b) the displacement
    (c) the acceleration
    (d) the speed

12. In which of the following cases of motions, the distance moved and the magnitude of displacement are equal?

    (a) If the car is moving on straight road
    (b) If the car is moving in circular path
    (c) The pendulum is moving to and fro
    (d) The earth is revolving around the Sun

**13.** Which of the following figures (see below Figure) represents uniform motion of a moving object correctly?
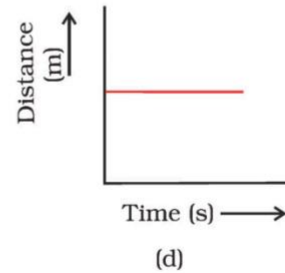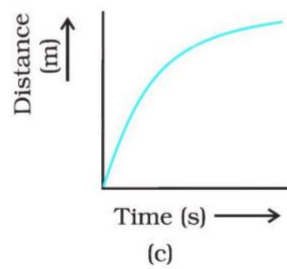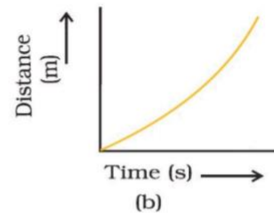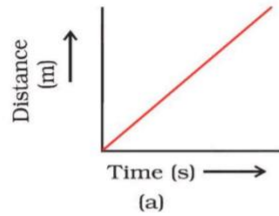
SHORT ANSWER QUESTIONS

14. The displacement of a moving object in a given interval of time is zero. Would the distance travelled by the object also be zero? Justify you answer.

15. How will the equations of motion for an object moving with a uniform velocity change?

16. A car starts from rest and moves along *the x*-axis with constant acceleration 5 m/s^2 for 8 seconds. If it then continues with constant velocity, what distance will the car cover in 12 seconds since it started from the rest?

17. A motorcyclist drives from A to B with a uniform speed of 30 km/h and returns back with a speed of 20 km/h. Find its average speed.

18. Draw a velocity versus time graph of a stone thrown vertically upwards and then coming downwards after attaining the maximum height.

19. The velocity-time graph (see below Figure) shows the motion of a cyclist. Find (i) its acceleration (ii) its velocity and (iii) the distance covered by the cyclist in 15 seconds.
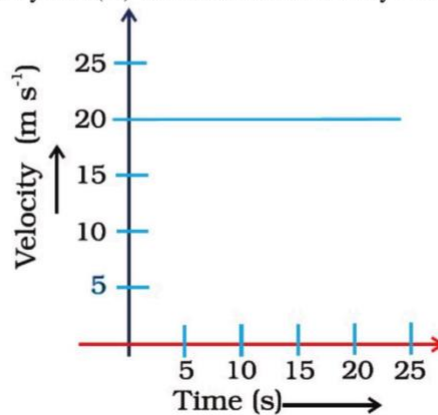
20. A girl walks along a straight path to drop a letter in the letterbox and comes back to her initial position. Her displacement–time graph is shown in below figure. Plot a velocity–time graph for the same.
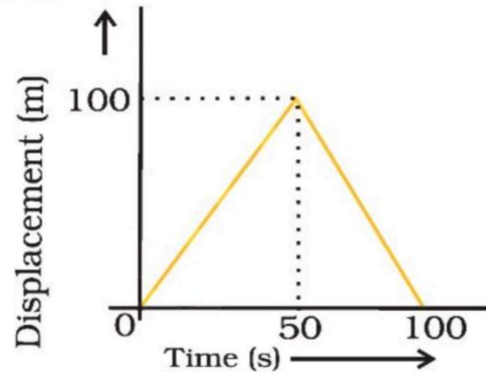
LONG ANSWER QUESTIONS

21. An object starting from rest travels 20 m in first 2 s and 160 m in next 4 s. What will be the velocity after 7 s from the start.

22. An electron moving with a velocity of 5×10^4 m/s enters into a uniform electric field and acquires a uniform acceleration of 10^4 m/s^2 in the direction of its initial motion.
(i) Calculate the time in which the electron would acquire a velocity double of its initial velocity.
(ii) How much distance the electron would cover in this time?

23. Obtain a relation for the distance travelled by an object moving with a uniform acceleration in the interval between 4th and 5th seconds.

24. Two stones are thrown vertically upwards simultaneously with their initial velocities u_1 and u_2 respectively. Prove that the heights reached by them would be in the ratio of $u_1^2 : u_2^2$ (Assume upward acceleration is $-g$ and downward acceleration to be $+g$).

25. An object is dropped from rest at a height of 150 m and simultaneously another object is dropped from rest at a height 100 m. What is the difference in their heights after 2 s if both the objects drop with same accelerations? How does the difference in heights vary with time?

SOCIAL SCIENCE

A. Project work on Disaster Management.

1. Prepare a file on Disaster Management under the following heads :

a. Define Disaster Management, b. Type of hazards, c. Difference between hazards & Disaster, Phases of Disaster management, d. Long time measures taken to reduce the impact of disaster.

B.   Revise and complete the chapters done in class.

GEOGRAPHY

CHAPTER 1 – INDIA - SIZE AND LOCATION

1. Give the Latitudinal and longitudinal extent of

a) Manipur

b) Delhi

c) Kerala.

2.What is the total length of India's land boundary? What is the length of India's coast line?

3. Why India is called a peninsula?

4. Name the Indian states forming land frontiers with –

Pakistan

Bangladesh

China

Bhutan

Nepal

5. What is a subcontinent? Name the countries forming the Indian subcontinent.

6. Name the states/union territories of India which neither form the coast line nor the land frontiers.

In a political map of India mark and label the following:

Tropic of Cancer, Standard Meridian, Southern most, northern most, easternmost and western most point of India (Location and Labeling)

CHAPTER 2 – PHYSICAL FEATURES OF INDIA

1. Write two main advantages of each physiographic unit of India.

2. Explain the following terms:

a) Folding

b) Faulting

c) Volcanic activity

2.What do you know about the 'Gondwana land'.

3.Name the oldest land mass of India. Which types of rocks are found there?

4.Name major physiographic divisions of India.

5.Describe the latitudinal division of the Himalayas?

6.Which three river systems form the Northern Plains?

7.Why the Northern Plains are called the depositional plains?

8.How are the riverine islands formed? Which is the largest riverine island in the world?

9.What are distributaries?

10.Describe the main characteristics of the following:-

 Bhabhar; b. Tarai; c. Khadar; d. Bhangar

11.Which are the two broad divisions of the Peninsular Plateau?

12.Give important characteristics of the Deccan Plateau.

13.Compare the Western and Eastern Ghats.

14.Give an account of the Indian Desert.

15.Name two peninsular rivers that form estuaries.

16.Distinguish between the Lakshadweep and Andaman and Nicobar Islands.

17.Name the three sections of the Western Coast.

18.Explain the coastal plain along the Eastern coast of India

19.On an outline map of India locate and label the following:-

Mountain Ranges- The Karakoram, The Zaskar, Shivalik, Aravali, Vindhyas, Satpura, Western Ghats, Eastern Ghats.

INFORMATION TECHNOLOGY (402)

1. Draw and describe model of communication.

2. Paste picture of component of M.S. Word and describe each component.

3. Write short keys

      a . To open new file

      b. To open existing file

      c. To save file

      d. To close window or any application

      e. To cut the content

      f. To copy the content

      g. To paste the content

      h. To make content bold

      i.To make content italic

      j.To make content underline

k. Refresh

4. Write extension and default file name of

   a. M.S. Word file

   b. M.S. Powerpoint file

   c. M.S. Excel file

5. Student who have not submitted assignment work given in group submit after holidays.

6. Learn all the chapters done in class

Art

• Mandala art and craft on canvas or on cardboard

Materials required

• Crystal mirrors

• Stones,beads,bindi and etc

• Colour medium - Acrylic

- **Mandala art and craft on canvas or on cardboard**

Materials required

- **Fevicol or glue gun**

- **Crystal mirrors**

- **Stones,beads,bindi and etc**

- **Colour medium - Acrylic**

- **Jute thread for outline or 3d liner**

"Every action is important and every deed is vital….."

Wishing all the students a joyful learning and Happy Holidays.

歩いて行くという森の旅