



**SANT NISCHAL SINGH PUBLIC SCHOOL
LADWA**

**HOLIDAYS
HOMEWORK
(2024-25)**

CLASS - IX



Dear Students!

Wishing you a season of happiness, positivity, and cherished memories. It's the time to recharge your spirits, and come back refreshed. The purpose of holiday's homework is to make you independent , efficient in time management and to develop life skills such as researching, critical thinking, and problem-solving.

ENGLISH

- **Art Integrated Work**
Make a Project report on literary figures of Haryana & Manipur.
- **Portfolio**
All the students will make one English Portfolio.
Roll No. 1 to 12 : The Sound of Music
Roll No. 13 to 24 : The Lost Child
Roll No. 25 to 35: A Truly Beautiful Mind
Portfolio must have following pages
Topic 1. My Goal
Topic 2 .. Peer Assessment
Topic 3 .. Self Assessment
Topic 4 .. Target
Topic 5 .. My Strength
Topic 6 ..My Weakness
Portfolio file must be neat and clean.
- **Subject Enrichment Activity**
 1. **Do the following pages of S.H.A.R.P Insight in**
 - **Module 1 - Pg no. 13 to 16 & 23 to 28**
 - **Module 7- Pg no. 310, 311, 314, 315, 319, 320,**
 - **Module 8- Pg no. 396 ,397,400,401,**
 - **Module 9 - Listening Task 1 & 2 of Module 9**
 2. **Questionnaire Making**

How to do: Prepare 15 multiple choice questions/short answer type questions from the story

a) The lost Child.

b) The Little Girl. (NCERT Book)



हिंदी

*उत्तर पूर्वी राज्य मणिपुर के दर्शनीय स्थल के और हरियाणा के दर्शनीय स्थल के का तुलनात्मक अध्ययन करते हुए एक परियोजना तैयार की जाए।

- गणजटल इंग्लिश गवर्णमेंट पर एक कलाज बनाइए।
- रैदास के पद के व्याख्या सहित **A4** सीट पर लिखिए।



- Practice the sums of ch1 ,2 ,3 ,4 from ncert exemplar
- **Art integrated project**
Compare population and literacy rate of Haryana and Manipur with the help of Bar chart and pie chart
IX class maths activities
Pg 16 , 40 ,50 , 72 ,128



- **Art Integrated Project**

Biodiversity: Manipur is home to a diverse range of flora and fauna, including many species that are unique to the region. You could create a scientific

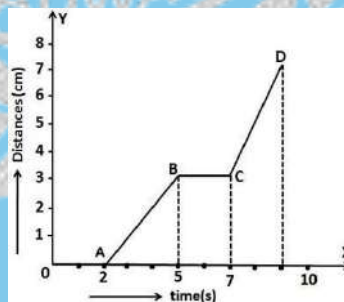
illustration that showcases some of the plants and animals found in Manipur, along with a description of their habitat and importance.

- **Subject Enrichment Activity**

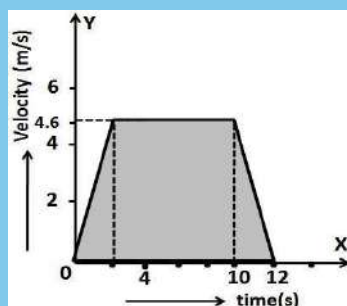
Assignment 1

1. Vishnu swims in a 90m long pool. He covers 180m in one minute by swimming from one end to the other and back along the same straight path. Find the average speed and average velocity of Vishnu.
2. A particle is moving in a circle of diameter 5m. Calculate the distance covered and the displacement when it completes 3 revolutions.
3. A body thrown vertically upwards reaches a maximum height 'h'. It then returns to ground. Calculate the distance travelled and the displacement.
4. A body travels a distance of 15m from A to B and then moves a distance of 20m at right angles to AB. Calculate the total distance travelled and the displacement.
5. An object is moving in a circle of radius 'r'. Calculate the distance and displacement (i) when it completes half the circle (ii) when it completes one full circle.
6. An object travels 16m in 4s and then another 16m in 2s. What is the average speed of the object?
7. In along distance race, the athletics were expected to take four rounds of the track such that the line of finish was same as the line of start. Suppose the length of the track was 200m.
 - (a) What is the total distance to be covered by the athletics?
 - (b) What is the displacement of the athletics when they touch the finish line?
 - (c) Is the motion of the athletics uniform or non-uniform?
 - (d) Is the displacement of an athletic and the distance covered by him at the end of the race equal?
8. Starting from a stationary position, Bhuvan paddles his bicycle to attain a velocity of 6m/s in 30s. Then he applies brakes such that the velocity of bicycle comes down to 4m/s in the next 5s. Calculate the acceleration of the bicycle in both the cases.
9. The odometer of a car reads 2000 km at the start of a trip and 2400km at the end of the trip. If the trip took 8 hr, calculate the average speed of the car in km/hr and m/s.
10. A body is moving with a velocity of 15m/s. If the motion is uniform, what will be the velocity after 10s?
11. A train travels some distance with a speed of 30km/hr and returns with a speed of 45km/hr. Calculate the average speed of the train.

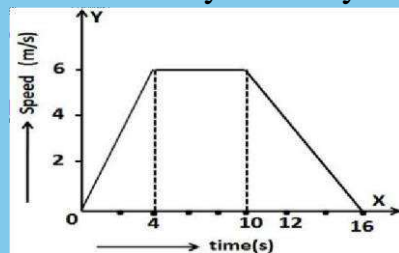
12. A train 100m long moving on a straight level track passes a pole in 5s. Find
 (a) the speed of the train
 (b) the time it will take to cross a bridge 500m long.
13. A car travels along a straight line for first half time with speed 40km/hr and the second half time with speed 60km/hr. Find the average speed of the car.
14. A body starts rolling over a horizontal surface with an initial velocity of 0.5m/s. Due to friction, its velocity decreases at the rate of 0.05m/s^2 . How much time will it take for the body to stop?
15. A car traveling at 36km/hr speeds upto 70km/hr in 5 seconds. What is its acceleration? If the same car stops in 20s, what is the retardation?
16. On a 120km track, a train travels the first 30 km at a uniform speed of 30 km/hr. How fast must the train travel the next 90 km so as to average 60 km/hr for the entire trip?
17. A train travels at 60 km/hr for 0.52 hr; at 30 km/hr for the next 0.24 hr and at 70 km/hr for the next 0.71 hr. What is the average speed of the train?
21. The graph in below figure shows the positions of a body at different times. Calculate the speed of the body as it moves from (i) A to B (ii) B to C and (iii) C to D.



22. The velocity time graph of an ascending passenger lift is given below. What is the acceleration of the lift: (i) during the first two seconds (ii) between 2nd and 10th second (iii) during the last two seconds.



23. A body is moving uniformly with a velocity of 5m/s. Find graphically the distance travelled by it in 5 seconds.
24. Study the speed-time graph of a body shown in below figure and answer the following questions: (a) What type of motion is represented by OA? (b) What type of motion is represented by AB? (c) What type of motion is represented by BC? (d) Calculate the acceleration of the body. (e) Calculate the retardation of the body. (f) Calculate the distance travelled by the body from A to B.



25. In the above question, calculate (i) distance travelled from O to A (ii) distance travelled from B to C. (iii) total distance travelled by the body in 16 sec.
26. A body is accelerating at a constant rate of 10m/s^2 . If the body starts from rest, how much distance will it cover in 2 seconds?
27. An object undergoes an acceleration of 8m/s^2 starting from rest. Find the distance travelled in 1 second.
28. A moving train is brought to rest within 20 seconds by applying brakes. Find the initial velocity, if the retardation due to brakes is 2m/s^2 .
29. A car accelerates uniformly from 18km/h to 36 km/h in 5 seconds. Calculate (i) acceleration and (ii) the distance covered by the car in that time.
30. A body starts to slide over a horizontal surface with an initial velocity of 0.5 m/s . Due to friction, its velocity decreases at the rate of 0.05 m/s^2 . How much time will it take for the body to stop?
31. A train starting from the rest moves with a uniform acceleration of 0.2 m/s^2 for 5 minutes. Calculate the speed acquired and the distance travelled in this time.
32. A bus was moving with a speed of 54 km/h . On applying brakes, it stopped in 8 seconds. Calculate the acceleration and the distance travelled before stopping.
33. A motor cycle moving with a speed of 5 m/s is subjected to an acceleration of 0.2 m/s^2 . Calculate the speed of the motor cycle after 10 seconds and the distance travelled in this time.
34. The brakes applied to a car produce an acceleration of 6 m/s^2 in the opposite direction to the motion. If the car takes 2 seconds to stop after the application of brakes, calculate the distance it travels during this time.

35. A train starting from rest attains a velocity of 72 km/h in 5 minutes. Assuming that the acceleration is uniform, find (i) the acceleration and (ii) the distance travelled by the train for attaining this velocity.
36. Calculate the speed of the tip of second's hand of a watch of length 1.5 cm.
37. A cyclist goes once round a circular track of diameter 105m in 5 minutes. Calculate his speed.
38. A cyclist moving on a circular track of radius 50m complete revolution in 4 minutes. What is his (i) average speed (ii) average velocity in one full revolution?
39. The length of minutes hand of a clock is 5 cm. Calculate its speed.
40. A car starts from rest and moves along the x-axis with constant acceleration 5m/s² 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?

Assignment 2

Where are chromosomes located in a cell? How are they important to us?

1. Give one function of RER and SER.
2. What will happen if the cellular organisation is destroyed due to some physical and chemical means?
3. Mention any two function of nucleus.
4. Why are lysosomes called "suicidal bags of the cell"?
5. (i) Why do we soak chana in water overnight? (ii) Name the phenomena involved in this process. (iii) Name another food that can be soaked in this way.
6. What is the similarity and dissimilarities between mitochondria and chloroplast? What will happen to a RBC when it is placed in a hypertonic solution?
7. Differentiate between plant and animal cell.
8. Give differences between ribosomes and centrosomes.
9. What are genes?
10. Differentiate between Mitosis and Meiosis.
11. Differentiate between Chloroplast, Chromoplast and Leucoplast.
12. Write a short note on packaging cell organelle.
13. Draw a well labelled diagram of eukaryotic nucleus. How is it different from nucleoid?
14. Plant cell, in addition to the plasma membrane, have another rigid covering called the cell wall. The cell wall lies outside the plasma membrane. The plant cell wall is mainly composed of Cellulose Cellulose is a complex substance and provide structural strength to the plants. When a living plant loses water through osmosis, there is a shrinkage or contraction of the content of the cell away from the cell wall. This phenomenon is known as plasmolysis.
 1. Which of the following is the main constituent of cell?
 - (a) Proteins (b) Lipids (c) lipoproteins (d) cellulose
 - 2 (b) Which of the following is outermost covering of the plant cell
 - (a) Cell membrane (b) plasma membrane (c) cell wall (d) cellulose
15. Define Plasmolysis.

16. Why is ATP called energy currency of the cell?
17. Which factor determines the shape and size of cell?
18. What is gene?
19. What is lacking in a virus which makes it depend on living cell to multiply? Give reason.
20. Draw a labelled diagram of a prokaryotic cell.
21. Which cell organelle is called power house of the cell? why
22. Why is Plasma Membrane called a selective permeable membrane and Cell Wall is called as fully permeable membrane?
23. Which cell organelle, you think, is known as "Head Quarter" of the cell and why?
 3. What is the nuclear region of the prokaryotic cells called?
24. Where is Ribosomes synthesized? State the function of this organelle.
25. What will happen to an animal cell if placed in the hypertonic solution?
26. Name the only cell organelle seen in prokaryotic cell.
27. What is plasmolysis?
28. Why does the skin of your finger shrink when you wash clothes for a long time?
29. Name any three organelles with double membranes.
30. Name the mechanism by which substances like Carbon-di-Oxide and Water move in and out of the cell? Discuss.
31. Which plastid is responsible for yellow and other colours in petals of flower?
32. Where from a lysosome arise?
33. Which cell organelle synthesis lipids?
34. How many membranes are present in vacuole?
35. Name an organelle without a cell membrane.
36. What would happen to the life of a cell if there was no Golgi apparatus?
37. What do you mean by membrane biogenesis? Mention the organelle involved in it.
38. State one similarity and one difference between mitochondria and plastid.
39. Name the control room of the and show its components.

Why cell is known as the structural and functional unit of living organisms?

SOCIAL SCIENCE

- **Subject Enrichment Activity**

PROJECT REPORT ON Disaster Management (Page limit 7-8)

- (a) Introduction to disaster management
- (b) Common Hazards -Prevention and Mitigation
- (c) Man made Disaster (Nuclear, Biological and Chemical)
- (d) Community planning on disaster management

- **Art Integrated Project**

Geography of Manipur – (Size & location, Physical features)
Page limit (2-3)

- **Portfolio**

Result analysis of Lok Sabha Elections 2024 (page limit 1-2)

- **Learning Task**

Revise the following chapters:

Economics chapter -2 (People as resource)

Geography chapter 1,2 (India size and location , Physical features of India)

Civics chapter -1 (What is democracy? Why democracy?)

History chapter -1 (The French revolution)

Note: Submit your holiday's home work in a handmade file cover.

Use A4 ruled sheets and do extensive art and craft .



➤ **Students have to make report on the given below topic according to the respective roll numbers.**

Topic	Roll No.:
1. Computer Organization	(1-7)
2. Memory and Storage devices	(8-14)
3. List of Operating Systems and Web Browser	(15-21)
4. Types of Software	(22-29)
5. Components of Computer System	(30 onwards)

MULTIDISCIPLINARY ACTIVITY

- **Chart making topics** 🖐️

(Make creative, designer and data based charts in big font)

Roll No

Topics

- 1 Draw Mind Map of literature Chapter-The Lost Child.
- 2 Draw mind map of poem-The Rain on the Roof.
- 3 Draw mind map of chapter- A Truly Beautiful Mind.
- 4 Draw mind map of any poem – On Killing A Tree.

- 5 Draw chart of Reported Speech.
- 6 Democratic Rights in India.
- 7 Demographic profile of India As per latest population census.
- 8 List of 10 Plants and herbs with its medicinal value.
- 9 Participants and timeline of WW-I and WW-II
- 10 Stages of passing bill in Indian Parliament.
- 11 बर्द और पद
- 12 अनुनाणसक और अनुस्वार
- 13 अर्शकी दृणि से र्वाक्य केभेद
- 14 उपसर्श और प्रत्यय
- 15 स्वर सोंणि
- 16 All the identities used in chapter 2
- 17 Circle and its properties
- 18 Formulas related to the surface area and volume
- 19 Angles and its properties
- 20 Triangle and criterias for the co gurency of two triangles
- 21 Computer organization
- 22 Memory and storage devices
- 23 List of operating systems and web browser
- 24 Types of software
- 25 Components of computer system
- 26 Administrative division of Haryana
- 27 Haryana culture and heritage
- 28 Economy of Haryana
- 29 Notable awards and honours received by individuals of Haryana
- 30 Haryana Tourism
- 31 Haryana sports
- 32 Battles in Haryana
- 33 Formation of Haryana
- 34 Facts/ features of Indian Constitution
- 35 Career options in History , geography and civics
- 36 Legends of Haryana /List of successful people

ART/DRAWING

- Still Life Study with Colors or Pencil Shading(Two Sheet)
- Bird Study with Colors or Pencil Shading (One Sheet)
- Animal Study with Colors or Pencil Shading (One Sheet)
- Landscape (Any Two you like with Colors)

Note :- These all Six sheet work are to be done in your Regular drawing File. No need to Purchase extra file for above work.

