Dr. Virendra Swarup Education Centre, Jajmau, Kanpur

Summer Holiday Homework (2026-27)

Class- IX

English

1.**Skill Enhancer**

a. Comprehension assignment :3,4,5

b. Grammar:4,5,6

2.**Project Work**

a. Make a project on the following literary devices, use pictures to illustrate .(Use a combination of Art and Comment Sheets or use interleaf sheets):- Simile, Metaphor, Personification, Hyperbole, Alliteration, Assonance, Anaphora, Repetition, Oxymoron, Antithesis, Imagery and it's types)

b. Make a Project on Sudha Murthy: birth, life, achievements, present

Use appropriate pictures to illustrate (5comment sheets+5 art sheets)

Note: Project should be filed in a handmade paper file

विषय - हिंदी

ग्रीष्मावकाश गृह कार्य

1."तरुण क्रांति के समर्थक होते हैं और वृद्ध अतीत गौरव के संरक्षक" निम्न विषय पर 120 शब्दों में लेख लिखें। (कार्य व्याकरण रजिस्टर में होगा)

2. हिंदी साहित्य के रत्न तुलसीदास, मुंशी प्रेमचंद, सुभद्रा कुमारी चौहान में से किसी एक का साहित्यिक जीवन परिचय देते हुए सुंदर चित्रात्मक परियोजना कार्य करें।

***परियोजना कार्य* पहला पृष्ठ - विद्यार्थी का नाम,कक्षा वर्ग, अनुक्रमांक, विद्यालय का नाम एवं प्रतीक चिन्ह (लोगो) दूसरा पृष्ठ -आभार ज्ञापन तीसरा पृष्ठ -अनुक्रमणिका चौथा पृष्ठ- प्रस्तावना पांचवा पृष्ठ - चित्रात्मक परियोजना कार आरंभ अंतिम पृष्ठ - टिप्पणी (कार्य कक्षा में दिए गए निर्देश के अनुसार होगा)**

Artificial Intelligence

1. Prepare a PowerPoint presentation of at least 10 slides on "Generative AI" and submit its printout to respective teachers.

Make a practical file of Python programs. The list of programs is given below. Each program should be written in a comment sheet.

2. a) PRINT

- To find cube of number 9
- To convert length given in meters into centimetres.
- To calculate Simple Interest if the principle amount = 60000, rate of interest = 4.5 time = 65

b) INPUT

- To calculate Area and Perimeter of a rectangle and square
- To calculate Area and circumference of a circle. Take radius as input from the user.
- To calculating average marks of 3 subjects

Computer Application

Create a document on the topic:
"Importance of Computers in Daily Life"
Instructions:
Type at least 150 words.
Give a suitable heading.
Change font size and style.
Use bold, italic and underline formatting.
Align heading at center. Apply Line Spacing & Paragraph Spacing
Bullets and Numbering
Save the file as: Computer_Uses.odt and submit its printout to respective teacher.

MATHEMATICS

1. Very short questions from page number 21, 56 and 307

2. Case Study Based Questions from page number 29, 30, 61 and 310.

3. Chapter test from page number30,31, 62 and 311.

4. Do activity 3,4,5,6 and 7 in Maths lab Manual

Note: Do very short questions, case study based questions and chapter test in separate note book

PHYSICS:

These questions are to be solved in your homework registers.

1) Select the scalars and vectors from the following:

Velocity, Distance, acceleration, work, mass, retardation, Pressure, force, momentum, energy, weight, speed

2) Express the speed 36 km/hr in m/s.

3) Find the distance travelled by a body in 5 minutes if it travels with a uniform speed of 20 m/s.

4) A body rises vertically up to a height of 125 m in 5 sec and then comes back at the point of projection. Find

(i) The total distance travelled,

(ii) The displacement

(iii) The average speed and

(iv)The average velocity of the body.

5) A train first travels for 30 min with a velocity 30 km/hr and then for 40 min with a velocity of

40 km/hr in same direction. Calculate:

(i) The total distance travelled

(ii) The average velocity of train.

6) When is the body said to be at rest?

7) Can displacement be zero even if distance is not zero?

8) When is the magnitude of displacement equal to the distance?

9) Distinguish between average velocity and average speed.

10) What is meant by the term retardation? Give its S.I. unit.

11) 18 km/hr is equal to

(a) 10 m/s (b) 5 m/s (c) 18 m/s (d) 1.8 m/s

DIRECTION: In the following question, a statement of assertion(A) is followed by a ststement of

reason(R). Mark the correct choice as:

(A) Both reason (R) and Assertion (A) are true and reason (R) is correct explanation of assertion(A).

(B) Both reason (R) and Assertion (A) are true and reason (R) is not correct explanation of assertion (A).

(C) Assertion (A) is true but reason (R) is false.

(D) Assertion (A) is false but reason (R) is true.

(E) Both assertion (A) and reason (R) is false.

12) Assertion: The accelerated motion of an object may be due to change in magnitude of velocity or direction or both of them.

Reason: Acceleration can be produced only by change in magnitude of the velocity. It does

not depend the direction.

13) Assertion: The Speedometer of a car or a motorcycle measures its average speed.

Reason:Average velocity is equal to total displacement divided by total time taken.

14) Assertion: In circular motion, acceleration of particle is not towards its centre.

Reason: If the speed of the particle is not constant, acceleration is towards its centre.

15) The speed - time graph of a car is given here. Using the data in the graph calculate the total distance covered by the car.

(a) 1250 m (c) 1500 m

(b) 875 m (d) 870 m

16) A train takes 2 hrs to reach station B from station A and then 3 hrs to return from station B

to station A. The distance between two stations is 200 km. Find:

(i) The average speed

(ii) The average velocity of train.

17) A car moving on a straight path covers a distance of 1 km due east in 100 sec. What is speed

and velocity of the car?

18) A body starts from rest and acquires a velocity of 10 m/s in 2 sec. Find the acceleration.

19) A body is moving vertically upwards. Its velocity changes at a constant rate from 50 m/s to

20 m/s in 3 sec. What is its acceleration?

20) A toy car initially moving with a uniform velocity of 18 km/hr comes to rest in 2 sec. Find the

retardation of car in S.I. units.

21) The following table represents the distance of a car at different instants in a fixed direction.

TIME(Sec) 0 1 2 3 4 5

DISTANCE(m) 0 10 20 30 40 50

Draw displacement-time graph and with its help, find whether motion of car is uniform or

non-uniform. Use the graph to calculate

(i) The velocity of car

(ii) The displacement of car at t=2.5 sec and t=4.5 sec.

22) The displacement-time graph for the motion of four boys A and B along a straight road in the

same direction is shown below: which of them is moving fastest and which is moving

slowest? Give reason for your answer.

23) The velocity-time graph is shown below for moving object.

Find

□ Velocity at point C

□ Acceleration acting on body between A and B

□ Acceleration acting on body between B and C.

□ Total distance travelled by body.

□ Average velocity of body.

□ Velocity at point A.

24) What can you say about the motion of an object whose distance-time graph is a straight line

parallel to the time axis?

A train starting from a railway station and moving with uniform acceleration attains a speed

of 40 km/hr in 10 minutes. Find its acceleration.

25) A body with an initial velocity 'x' moves with uniform acceleration 'y'. Plot its velocity –time

graph.

26) A car is travelling along the road at 8ms -1. It accelerates at 1ms -2 for a distance of 18 m. How

fast is it travelling?

27) A cyclist goes around a circular track once every 2 min. If the radius of the circular track is

105 m, calculate his speed. (given =22/7)

28) From the given v-t graph, it can be inferred that the object is

(a) At rest (c) Moving with uniform acceleration

(b) In non-uniform motion (d) in uniform motion

29) What remains constant during uniform circular motion and why?

30) Name the two quantities, the slope of whose graph gives (i) speed (ii) acceleration

31) Which force is responsible for uniform circular motion and state its direction?

PROJECT WORK : Draw the s-t graphs, v-t graphs and a-t graphs for various different conditions of

a body moving with uniform accelerated motion on interleave sheets and get it spiral.

Derive all the equations of motion mathematically as well as graphically.

CHEMISTRY

1. *S. Chand Book:* Solve the following HOTS questions from *Chapter: Matter in Our Surroundings* in a separate holiday homework notebook:
Q. No. 66 to 70, 72, 73, 75, 82 & 85
Write both questions and answers neatly.

2. *Project Work:* Prepare a detailed project file based on any one of the following topics:
a. Evaporation
b. Different types of mixtures and their applications
c. Role of chemistry in agriculture
No plastic file cover should be used. Use a handmade paper file cover for preparing the file instead

Biology: Prepare a project file on cell and its organelles describing their importance. Support your work with neat and labelled diagrams.

Social Science

Project work: - Make a project file on the topic Disaster Management.

Instructions: - .

□ The Project should be handwritten.

□ Make Cover page with Title name, school Name, student name, Class, Roll Number.

□ Give Introduction Brief about disaster management, Details of the Disaster: Causes, Effects,

Areas affected, Example of a real disaster event, Lessons learned and importance of disaster

management.

□ Use pictures, diagrams, or maps wherever possible, Add headings, subheadings, and bullet

points for clarity.

□ Project Length should be 12–15 pages (including pictures).