ITBP PUBLIC SCHOOL ,DWARKA
SUMMER VACATION HOMEWORK
(SESSION : 2024-2025)
(Class - IX)

ENGLISH

❖ Write a descriptive paragraph on Andaman and Nicobar Island. cover the following topic

General information, tradition and culture, site seeing places (local) and a distance away, language, cuisine (food) and best season to visit.
        (Use your notebook for this homework).

❖ Explores folk tales of Lakshadweep to give an insight into the culture of the place.

❖ Creates a comic strip on the selected folk tale. GRAMMAR: WORKSHEETS"

HINDI

❖ किसी एक लेखक /लेखिका या कवि /कवयित्री के विषय में जानकारी देते हुए एवं भाषा के क्षेत्र में उनके योगदान को दर्शाते हुए एक पोर्टफोलियो तैयार करें ।
❖ निम्न में से किसी एक विषय पर अनुच्छेद लिखिए शब्द सीमा लगभग 120 शब्द
    क) यात्रा जिसे मैं भूला नहीं पता,
    ख) संघर्ष ही जीवन है
     ग) आत्मविश्वास
❖ अपनी पाठ्यपुस्तक में से रहीम के सभी दोहों को A4 शीट पर सुंदर ढंग से लिखें और उन्हें याद करें अर्थ सहित ।
व्याकरण :-

- ❖ वर्ण, शब्द ,पद ,संज्ञा ,सर्वनाम, विशेषण, क्रिया व अर्थ के आधार पर वाक्य , इन सभी की परिभाषा, उदाहरण व भेद लिखे व याद करें ।
- ❖ वीर या श्रृंगार रस की कोई कविता याद कर लिखे व लय सहित वाचन का अभ्यास करे । कविता कक्षा मे सुनी

MATHS

- ❖ Do the holiday homework in separate holiday homework notebook.

- ❖ Revise all questions and examples of chapter 1,2 and 3.

- ❖ Download the following worksheet and solve in Holiday Homework notebook. https://student.homeworkapp.ai/home/1131227c-fbde-401c-99e3-4b14d23f203e

- ❖ Make a project on history of Pie (π)(minimum 3 pages).
- ❖ Construct Square Root Spiral on a A4 Size Paper and use art of Andman and Nikobar to decorate it.

- ❖ Make a beautiful bookmark for your Maths fair notebook."

BIOLOGY

- ❖ Make a portfolio on the biodiversity of Andaman and Nicobar Island.
- ❖ Do the assignment given on Chapter Cell.

PHYSICS

Do this work in physics notebook
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. 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

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

5. 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 than1
(d) equal or less than1

6. 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

7. Area under a v – t graph represents a physical quantity which has the unit
(a) m2
(b) m
(c) m3
(d) m/s

8. Slope of a velocity – time graph gives
(a) the distance
(b) the displacement
(c) the acceleration
(d) the speed

9. 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 from
(d) The earth is revolving around the Sun

SHORT ANSWER QUESTIONS

1. 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.

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

3. A car starts from rest and moves along the x-axis with constant acceleration 5 m/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?

4. 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.

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

Fill In The Blanks:

1. When s-t graph is parallel to x-axis, the body is_____.
2. When v-t graph is parallel to x-axis, the body is_____.
3. The slope of v-t graph for a body in uniformly accelerated motion is_____.
4. The slope of displacement-time graph for a car parked in a parking area is_____.
5. Acceleration is a _____ quantity.

TRUE/FALSE:

1. Velocity of an object in uniform circular motion is constant.
2. A car moving on a crowded road with a number of traffic red signals is in non-uniform
 Motion.
3. Displacement of a body can be positive or zero, but never negative.

4. Angular displacement is measured in radians.
5. Define motion.
6. Distinguish between distance and displacement

7. Define acceleration also write down its S.I unit"

CHEMISTRY

❖ Compare the properties of Solid, Liquid,Gas in tabular form.

❖ Read about 5 Scientists and their contribution in chemistry and write atleast 50 words about each scientist.

❖ Solve these questions and write in your notebooks

a) Bromine and air take about 15 minutes to diffuse completely but bromine diffuses into a vacuum very rapidly. Why is this so?

b) Why is a liquid used to operate the brakes in a car?

c) An inflated ballon full of air goes down slowly even though the knot at the mouth of the ballon is airtight. And after a week all the air has escaped from the ballon. Explain how the air particles got out of the ballon.

ECONOMICS

❖ Write all economics related activity which will happem during 18 May to 30 June.

HISTORY

❖ Prepare project on ANY ONE CHAPTER OUT OF LAST TWO CHAPTERS

POL SCIENCE

❖ Solve the UT 1 paper of political science section in your political science notebook.

❖ Find out 15 objective type questions from chapter 1 and chapter 2 each (i.e 30) do it in your political science fair notebook.

GEOGRAPHY

❖   River Conservation Programme

The river cleaning programmes and conservation measures are an important initiative taken up by the government to conserved and clean our rivers.

Write about the following programme, mentioning the aims and objective, important events, actions associated with them in about 300 to 400 words.

Also attach pictures associated with the respective programmes.

1.   National river conservation Plan{NRCP}
2.   The Narmada River conservation mission
3.   The Namami Gange programme

    2.   Project Work

❖   Collect photographs of typical rural houses, and clothing of people from different regions of India. Examine whether they reflect any relationship with the climatic condition and relief of the area.

❖   Map Creation and Study
❖   Objective: Understand geography and improve map-reading skills.
❖   Draw and outline map of India and represent the following:

   (i)   Mountain and hill ranges – the Karakoram, the Zaskar, the Patkai Bum, the Jaintia, the Vindhya range, the Aravali, and the Cardamom hills(ch-2 Physical features of India)

   (ii)   Major rivers and lakes of India(Ch-3 Drainage)

(iii)   Annual rainfall in different regions of India(ch-4 Climate)

❖ Make a file using A4 sheet size paper for the above assignment and project work.

ARTIFICIAL INTELLIGENCE

- ❖ Complete your all assignments in AI register.
- ❖ Make a poster on communication cycle and explain it briefly on A4 sheet.
- ❖ Make a stepwise plan using SWOT analysis about the activity given on pg- 55.
- ❖ Make a collage on Digital India Initiatives on A4 sheet.

ARTS AND CRAFTS

- ❖ Rajasthani couple hanging
- ❖ Madhubani painting on A3 sheet
- ❖ Wooden spatula (spoon) acrylic art.
  (Note:- for help check your class group)