

HOLIDAY HOME WORK

(2022-23)

English -

Develop a story in 150-200 words with the following beginning:

"Whenever John goes to Uncle Sam's house, he feels something different. He feels that Neil, Uncle Sam's son, has some supernatural powers. Whenever he is a normal boy."

Hindi -

औपचारिक व अनौपचारिक विषयों पर एक-एक पत्र लिखिए :- (100 शब्दों) में ।

एक लघु कहानी लिखिए :- (120 शब्दों) में ।

दो संवाद लेखन लिखिए :- (40 शब्दों) में ।

निर्देश :-

ये सभी कार्य कक्षा-कार्य कॉपी में करना है ।

(2)

Chemistry: I. Segregate the things around you as pure substances and mixtures (at least 5 examples)

II. Write an activity to show each type of mixtures [Refer Activity 2.1]

Activity should be based on:

- (i) Aim of the activity
- (ii) Material required
- (iii) Procedure
- (iv) observation
- (v) Conclusion
- (vi) labelled diagrams

Also write three points of differences between them with two examples in each case.

Biology:-

I. Who discovers cell and how?

II. Draw a different types of cell present in human body and explain why it is in different shape and size.



Physics

Q1 Differentiate between the scalar and vector quantities, giving four examples of each.

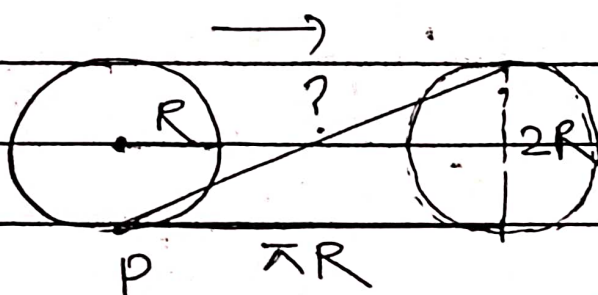
Q2 State whether the following quantity is a scalar or vector?

- (a) Pressure (b) force (c) momentum
(d) Energy (e) Weight (f) speed

Q3 A wheel of radius 'R' is rolling on the road what will be the displacement of a point 'P' in half rotation of wheel on the road? show the solution and choose the correct option?

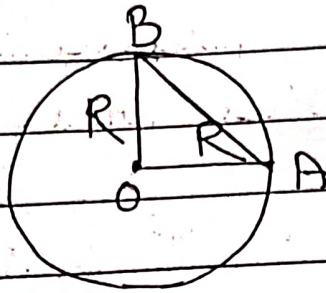
- (a) $R\sqrt{\pi^2+2}$ (b) $R\sqrt{\pi^2+4}$ (c) R (d) πR

Hint:



Q4 Write the difference between the distance and displacement.

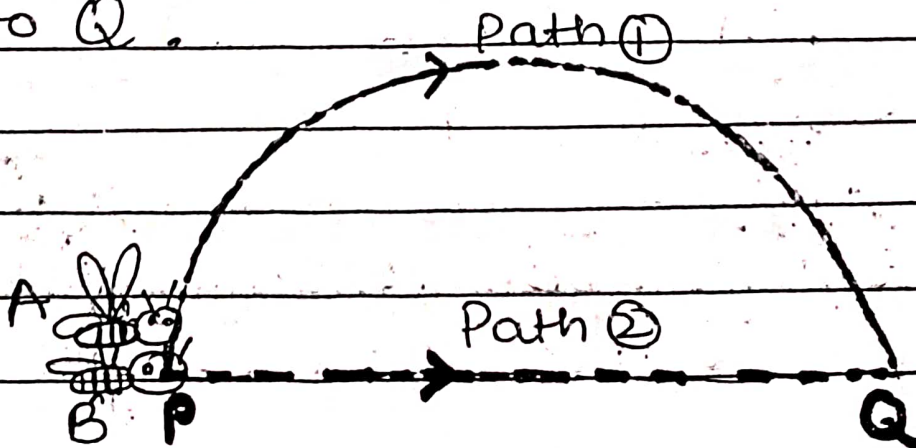
Q5. If the radius of the circle is R and a man is moving from O to A then A to B



Find

- (i) The distance covered by the man to reach B
- (ii) If man starts from O to A then A to B and further he moves from B to O . What will be the distance and displacement covered by the man to reach again at O .

Q6. If two bees are sitting at P . Bee A follow the path 1 and reaches to Q . Bee B follow the path 2 and reaches to Q .



Find

- (i) Distance covered by the Bee A
- (ii) Distance covered by the Bee B
- (iii) Which Bee covers the shortest path.
- (iv) Which path can be the displacement and why?
- (v) Find the ratio of distance and displacement covered by Bee A to Bee B.

Note: Bee A covers the distance
Bee B covers the displacement

Instruction: You need to do the above questions in your file
Pages should be interleaved.

- Q1. Write in your notes copy the following Topics, provided to you in H.W section.
- Importance of communication.
 - Perspectives in communication.
 - Factors affecting perspectives in communication.
 - Differentiation between Oral and Written communication.

Q2. Draw the mind maps send to you in your H.W section, in your notes copy.

Mathematics

- ① write about the life sketch and contribution of following mathematicians

- ① Srinivasa Ramanujan
- ② Aryabhata
- ③ Pythagoras
- ④ Euclid (400 words)

- ② locate $\sqrt{5}$ & $\sqrt{7}$ on number line write down the steps also.

- ③ Rationalise the following -

① $\frac{\sqrt{2}}{2\sqrt{3}-\sqrt{2}}$

② $\frac{2\sqrt{7}}{\sqrt{3}+\sqrt{5}}$

③ $\frac{2\sqrt{7}}{\sqrt{5}+\sqrt{3}}$

(4) Simplify

a) $(2\sqrt{3} + 3\sqrt{7})^2$

b) $(4\sqrt{7} - 3\sqrt{5})^2$

c) $(81a^2 - 100b^2)^2$

Note - Do each question in your notebook.

SOCIAL SCIENCE

History / Civics / Economics / Geography
ONE COMMON PROJECT

* → Make a project in file on Disaster Management & Kindly use interleaf file) with proper images and illustrations.

(Geography)

→ Learn and Complete the questions & answers of

geography chapters which are Completed.

(History)

→ Complete the Q. & A. of Ch. 1 The French Revolution which will be provided on VNCA App. Kindly go through the chapter as well.

(Economics)

→ Kindly explain in detail the factors of production and the three sectors of the economy with examples and pictures.

(8)

Political Science

- Explain in detail What is democracy?
and Arguments against democracy.
and Arguments in favour of democracy.
- Kindly state/ mention all the names
of the State (s) with its capital
and Union Territories on the
political map of India.