

BCM SCHOOL BASANT AVENUE DUGRI ROAD LUDHIANA
CLASS – IX
SCIENCE ASSIGNMENT

MCQ

1.Name the phenomenon which causes one crystal of potassium permanganate to turn a beaker of water purple.



a.centrifugation. b.filtration. c.diffusion. d. sedimentation

2.What is the acceleration of an object moving at constant velocity?

a) Zero. b) Positive. c) Negative. d) Infinity

Assertion Reason

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Both Assertion and Reason are false.

3.Assertion : the speedometer of a car measures the instantaneous speed of the car.
Reason : Average speed is equal to the total distance covered by an object divided by the total time taken.

4.Assertion : The solids do not diffuse in air.
Reason : The particles are loosely packed in solids.

Case study

5. Four Cyclist A,B,C ,D starts at the same point and at the same time and move in a straight line to reach destination .They all move with uniform velocities. They reach the destination in the following order
C, A, B, D

Answer the following questions

- a. If the displacement-time graph is plotted for each cyclist, which will be having highest slope
- b. Arrange the cyclist in decreasing order of velocity.
- c. How are the states of rest and motion relative?

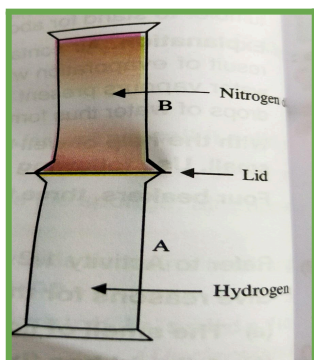
Subjective questions

6. A ball is thrown upwards and it goes to the height 100 m and comes down

- 1) What is the net displacement?
- 2) What is the net distance?

7. Discuss the various factors which affect the rate of evaporation. Latent heat of evaporation of two liquids A and B is 100 J/kg and 150 J/kg respectively. Which one can produce more cooling effect and why?

8. In certain experiment a gas jar B containing reddish brown gas, nitrogen dioxide is inverted over another jar A containing colourless hydrogen gas as shown. Now, the lid separating the two jars is removed.



Now answer the following:

- (i) After some time, what are the constituents in jar A?
- (ii) What colour will be observed in jar A and jar B?

9. Doctor advise to put strips of wet cloth on the forehead of a person having high fever.

10. If a body is changing its velocity uniformly by 20 m/s^2 . Then plot velocity time graph for body..also write nature of this graph.

