

## **CBSE TEST PAPER-01**

## **CLASS - XI PHYSICS (Kinematics)**

## **Topic: - Motion in Straight Line**

- 1. Under what condition is the relation s = vt correct? [1]
- 2. Two balls of different masses are thrown vertically upward with same initial speed. [1] Which one will rise to a greater height?
- 3. What is the relative velocity of two bodies having equal velocities? [1]
- 4. Write the characteristics of displacement? [2]
- 5. Draw displacement time graph for uniformly accelerated motion. What is its [2] shape?
- 6. Sameer went on his bike from Delhi to Gurgaon at a speed of 60km/hr and came [2] back at a speed of 40km/hr. what is his average speed for entire journey.
- 7. Define  $\vartheta = v + at$  from velocity time graph. [3]
- 8. A particle is moving along a straight line and its position is given by the relation  $x = (t^3 6t^2 15t + 40)m$ 
  - Find (a) The time at which velocity is zero.
    - (b) Position and displacement of the particle at that point.
    - (c) Acceleration for the particle at that line.
- 9. Velocity time graph of a moving particle is shown. Find the displacement (1) 0 4 s [5]
  (2) 0 8 (3) 0 12 s from the graph. Also write the differences between distance and displacement.

