

### PHYSICS ASSIGNMENT IX CLASS

- 1 A bus is moving at a speed of 72 km/h. On applying brakes it Comes to rest in 5 second. Find the acceleration and distance covered by the bus.
- 2 A ball is dropped from the edge of a roof. How long does it take to fall 4.9m? (given acceleration =9.8m/s<sup>2</sup>)
- 3 If a body travels along a circular path of radius 14m.calculate its distance and displacement when it completes one rotation.
- 4 A body is moving with a velocity of 10m/s. If the motion is uniform what will be the velocity after 10s.
- 5 Can the average velocity of a moving object be zero. Give an example
- 6 A body goes round with a constant speed in a circular orbit. Is the Motion uniform or accelerated?
- 7 Under what condition will the distance and distance of a moving object will have the same magnitude?
- 8 Can a body at rest have acceleration?
- 9 A ball is thrown vertically upwards and returns to hand of the thrower. Draw speed time graph and velocity time graph.
- 10 Plot velocity time graph for a uniform motion. What does the area between the graph and time axis for a certain interval indicate.