

## Science Weekly Test Class IX

### Very Short Answers

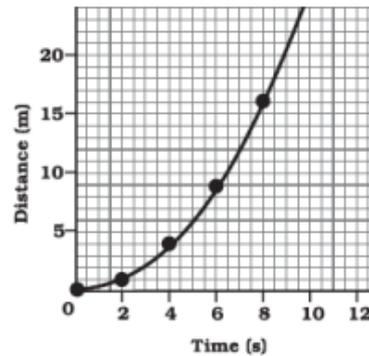
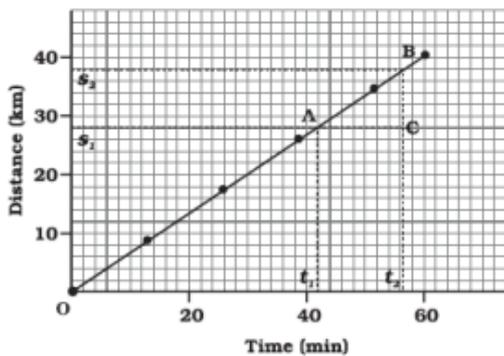
(1 x 5 = 5 Marks)

- Q1. What do you mean by motion and rest?  
 Q2. What are distance and displacement?  
 Q3. An object has moved through a distance. Can it have zero displacement? If yes, support your answer with an example.  
 Q4. When a body is said to be traveling with uniform motion?  
 Q5. What are scalar quantities?

### Short Answers

(3 x 5 = 15 Marks)

- Q6. When is the average speed of an object equal to the magnitude of its average velocity? Give reason also.  
 Q7. Usha swims in a 90 m long pool. She covers 180 m in one minute by swimming from one end to the other and back along the same straight path. Find the average speed and average velocity of Usha.  
 Q8. Identify motion of objects as shown by graphs



- Q9. What is uniform circular motion? Is circular motion an accelerated motion?

Q10. (a) Define acceleration.

- (b) A person walks along the sides of a square field. Each side is 100 m long. What is the maximum magnitude of displacement of the person in any time interval?

### Long answers

(5 x 2 = 10 Marks)

Q11. (a) Define average speed.

- (b) A bus travels a distance of 120 km with a speed of 40 km/h and returns with a speed of 30 km/h. Calculate the average speed for the entire journey.

Q12. Study the velocity-time graph and calculate

- (a) The acceleration from A to B  
 (b) The acceleration from B to C  
 (c) The distance covered in the region ABE  
 (d) The average velocity from C to D  
 (e) The distance covered in the region BCFE

