D AV PUBLIC SCHOOL THERMAL COLONY PNP.

CLASS 9 PHYSICS ASSIGNMENT CHAPTER - MOTION

1 How will the equations of motion for an object moving with a uniform velocity change?

2 A car starts from rest and moves along the x-axis with constant acceleration 5 m/s2 for 8 seconds .

If it then continues with constant velocity , what distance will the car cover in 12 sec. since it started from rest?

3 Obtain a relation for the distance travelled by an object moving with a uniform acceleration in the interval between 4th and 5th seconds.

4 Draw distance time graph of a body moving with constant acceleration.

5 A body A is at rest & body B is moving with a constant velocity.

Draw (i) distance time graph of A & B (ii) velocity time graph of A & B

6 Draw distance- time graph for a body (i) at rest (ii) in uniform motion (iii) in non uniform motion . Discuss their interpretation

7 A ball thrown vertically upwards returns to the thrower in 20 second. Calculate the velocity with which it was thrown & the maximum height attained by the ball .

8 When two bodies move uniformly , towards each other the distance between them decreases by 8m/s . If both the bodies move in the same direction with the same speed , the distance between them increase by 4 m/s . What are the speeds of the two bodies?