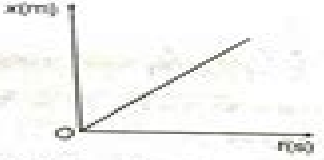
CHAPTER

3

Motion in a Straight Line

A Quick Recapitulation of the Chapter

1. **Kinematics** is the branch of physics that deals with the study of motion without going to the cause of motion.
2. Total length of the path traversed by an object during motion is called **distance** or **total path length**. It is a scalar quantity. It cannot be negative or zero.
3. The shortest distance between the initial and final positions of any object is called its **displacement**. It is a vector quantity. It can be positive, negative or zero.
4. If an object moves along the straight line covering equal distance in equal intervals to time, it is said to be in a **uniform motion**. The position-time graph of such a motion is given by



5. **Average velocity** is defined as the change in position or displacement (Δx) divided by the time interval (Δt), in which the displacement occurs.

$$\bar{v} = \frac{\Delta x}{\Delta t} = \frac{x_2 - x_1}{t_2 - t_1}$$

where, x_2 and x_1 are the positions of the object at time t_2 and t_1, respectively. It can be positive or negative depending upon the sign of the displacement.

6. **Average speed** is defined as the total path length travelled divided by the total time interval during which the motion has taken place.

$$\text{Average speed} = \frac{\text{Total path length}}{\text{Total time interval}}$$

It is always positive.

7. **Instantaneous velocity** at any instant is defined as the limit of the average velocity as the time interval Δt becomes infinitesimally small, *i.e.*,

$$v = \lim_{\Delta t \to 0} \frac{\Delta x}{\Delta t} = \frac{dx}{dt}$$

Here, $\lim_{\Delta t \to 0}$ stands for the operation of taking limit as $\Delta t \to 0$ of the quantity on its right. $\frac{dx}{dt}$ is the rate of change of position with respect to time at that instant.

8. The time rate of change of velocity is called **acceleration**.

$$\text{Acceleration, } a = \frac{\text{Change in velocity}}{\text{Time interval}}$$

Its unit is ms^{-2} and it is a vector quantity.

9. The **average acceleration** $\bar{a}$ over a time interval is defined as the change of velocity divided by the time interval.

$$\bar{a} = \frac{v_2 - v_1}{t_2 - t_1} = \frac{\Delta v}{\Delta t}$$

where, v_2 and v_1 are the instantaneous velocities at times t_2 and t_1.

10. **Instantaneous acceleration** of an object is the first time derivative of velocity at a given instant.

$$a = \frac{dv}{dt} = \frac{d^2x}{dt^2} \text{ or } a = \lim_{\Delta t \to 0} \frac{\Delta v}{\Delta t}$$

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