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SUBJECT:- PHYSICS CLASS:- IXTH DATE:-17/04/XXI

SUBJECT TEACHER:- MR. NEEL NIRANJAN

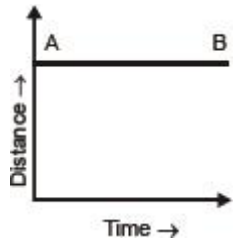
CHAPTER 1. (MOTION)(BASED ON NCERT PATTERN)

- **Uniform acceleration:** When velocity of body changes by equal amounts in equal time intervals, acceleration is said to be uniform. For example: Motion of a freely falling ball.
- **Non - uniform acceleration:** When velocity of body changes by unequal amounts in equal intervals if time, acceleration is said to be non - uniform. For example: Motion of car.

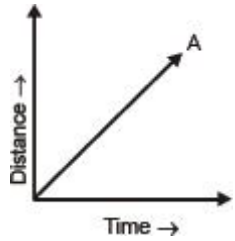
Graphical Representation of Motion

- **Distance -Time Graph:-**

- For a body at rest
- As the slope is zero, so speed of the body is zero.

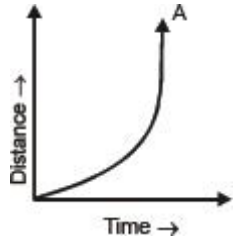


- For a body moving with uniform speed



- For accelerated motion.

- The slope of graph is increasing with time



- For decelerated (speeding down) motion.
- Slope of graph is decreasing with time