

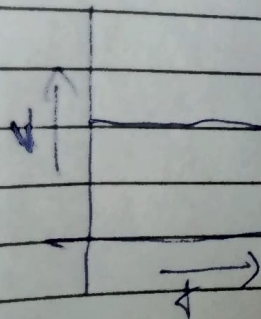
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1) The numerical ratio of displacement to distance for a moving object is

- (a) always less than 1
- (b) always equal to 1
- (c) always more than 1
- (d) equal or less than 1

2) If the displacement of an object is proportional to square of time, then the object moves with

- (a) uniform velocity
- (b) uniform acceleration
- (c) increasing acceleration
- (d) decreasing acceleration

3) From the given $u-t$ graph, it can be inferred that the object is



- (a) in uniform motion
- (b) at rest
- (c) in non-uniform motion
- (d) moving with uniform acceleration.

4) Suppose a boy is enjoying a ride on a merry-go-round which is moving with a constant speed of 10 m s^{-1} . It implies that the boy is -

- (a) at rest
- (b) moving with ~~no~~ no acceleration.
- (c) in accelerated motion.
- (d) moving with uniform velocity.

5) Area under a $v-t$ graph represents a physical quantity which has the unit -

- (a) m^2
- (b) m
- (c) m^3
- (d) m s^{-1}

(Q) Four cars A, B, C, D are moving on a level road. Their distance versus time graphs shown in the adjacent figure. Choose the correct statement.

