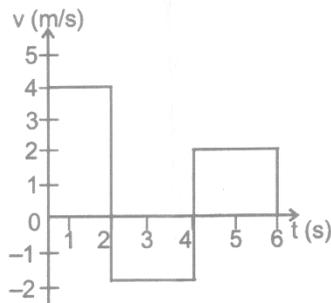


CLASS-IX PHYSICS
MOTION

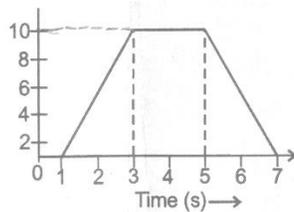
Assignment-4

MULTIPLE CHOICE QUESTION 4.1

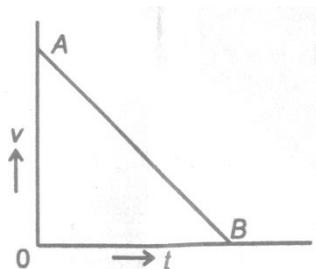
- Area between speed - time graph and time axis gives :
(A) Distance (B) Velocity (C) Speed (D) None of these
- An object undergoes an acceleration of 8 ms^{-2} starting from rest. Distance traveled in 1 s is :
(A) 2 m (B) 4m (C) 6m (D) 8 m
- The velocity-time graph of a body moving in a straight line is shown in figure. The displacement and distance travelled by the body in 6 seconds are respectively.



- For the velocity time graph shown in figure, the distance covered by the body in the last two seconds of its motion is what fraction is of the total distance covered in all the seven seconds ?

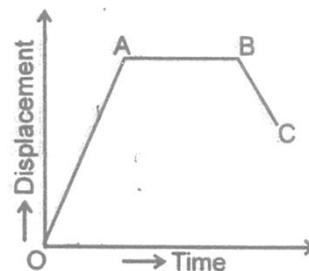


- (A) $1/2$ (B) $1/4$ (C) $1/3$ (D) $2/3$
- Velocity-time graph AB (Figure) shows that the body has :



- (A) A uniform acceleration
(B) A non-uniform retardation
(C) Uniform speed
(D) Initial velocity OA and is moving with uniform retardation

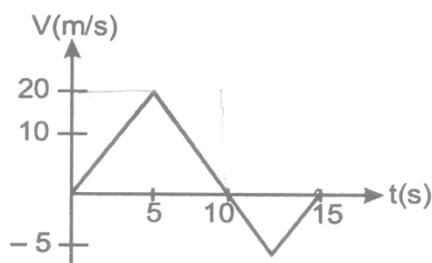
6. In figure BC represents a body moving :
- (A) Backward with uniform velocity
 - (B) Forward with uniform velocity
 - (C) Backward with non-uniform velocity
 - (D) Forward with non-uniform velocity



7. Speedometer measures speeds.

SUBJECTIVE QUESTION - 4.2

1. A stone is thrown vertically upward which takes time 't' to reach to maximum height 'h'. After next 't' seconds it reached the ground from the maximum height. Draw (i) distance-time graph and (ii) displacement time graph for the motion of the stone.
2. Draw V-t graphs in the following cases : (i) uniform retardation (ii) non uniform acceleration
3. From the following (V-t) graph find :



- (i) Distance and displacement in 10 second.
- (ii) Distance and displacement in 15 second.