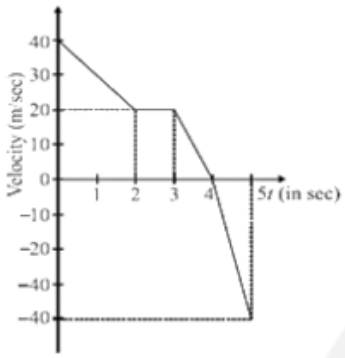
Yakeen NEET 2.0 2026

Physics by Saleem Sir

DPP: 6

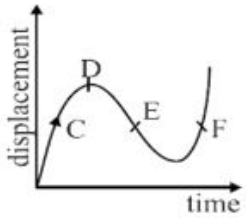
Motion in a Straight Line

Q1 From the following velocity time graph of a body, the distance travelled by the body and its displacement during 5 seconds in metres will be



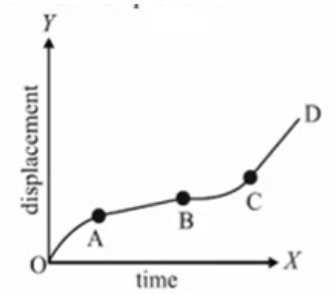
(A) 75,75
(B) 110,70
(C) 110,110
(D) 110,40

Q2 The displacement-time graph of a moving particle is shown. The instantaneous velocity of the particle is negative at the point:



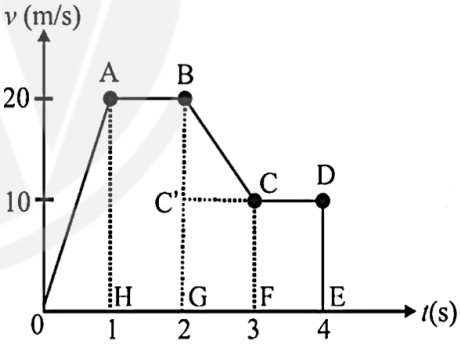
(A) D
(B) F
(C) C
(D) E

Q3 The graph between the displacement x and time t for a particle moving in a straight line is shown in figure. During the interval OA, AB, BC and CD, the acceleration of the particle is:



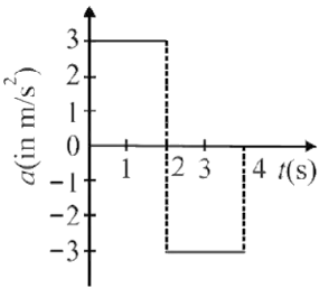
	OA	AB	BC	CD
(A)	+	0	+	+
(B)	−	0	+	0
(C)	+	0	−	+
(D)	−	0	−	0

Q4 The variation of velocity of a particle moving along a straight line is illustrated in the figure. The distance travelled by the particle in $4second$ is:

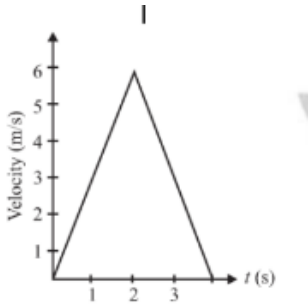


(A) 60 m
(B) 25 m
(C) 55 m
(D) 30 m

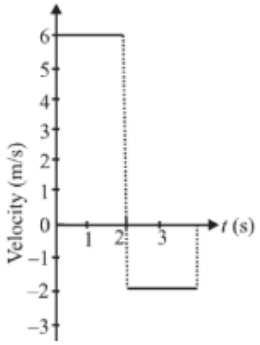
Q5 For motion of a particle acceleration time graph is shown in figure then the velocity time curve for the duration of $0 - 4\text{sec}$ is:



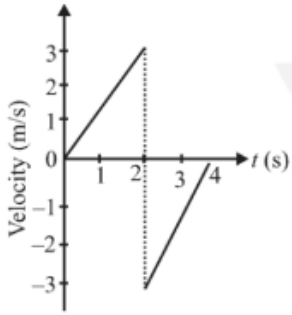
(A)



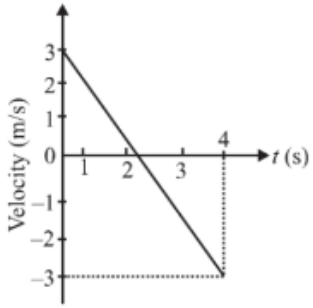
(B)



(C)

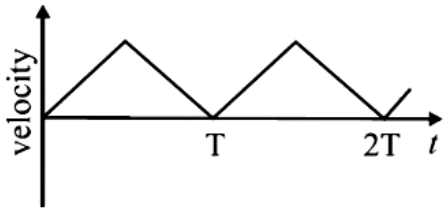


(D)

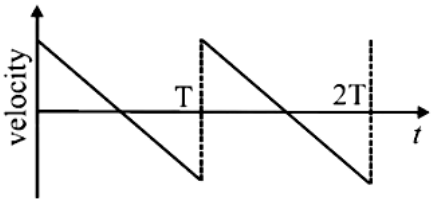


Q6 A ball is dropped from the certain height on the surface of glass. It is collide elastically the comes back to initial position. If this process it repeated then the velocity time graph is: (Take downward direction as positive)

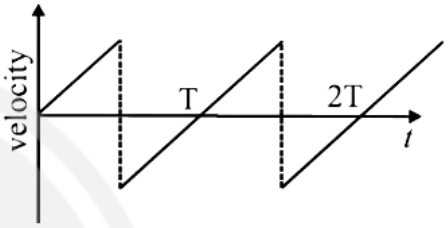
(A)



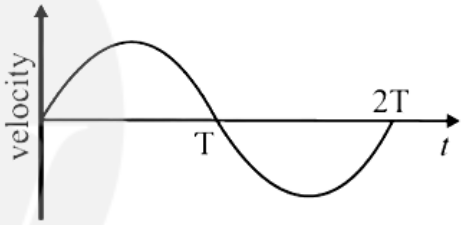
(B)



(C)

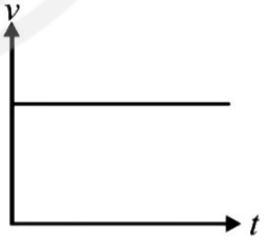


(D)

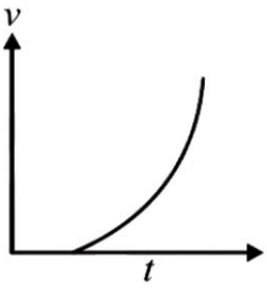


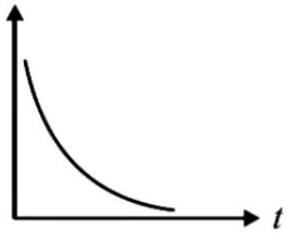
Q7 Which of the following velocity-time graphs represent uniform motion?

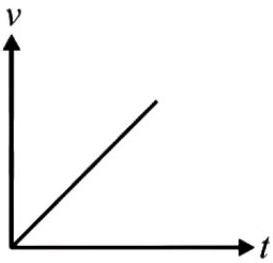
(A)



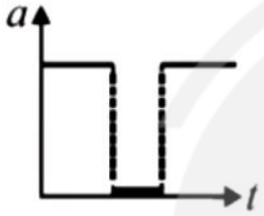
(B)

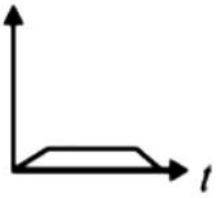


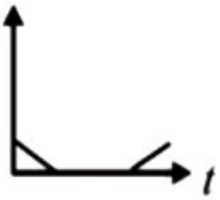
(C) 

(D) 

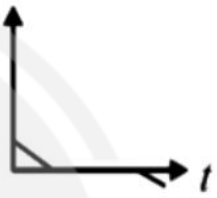
Q8 Acceleration-time graph of a body is shown. The corresponding velocity-time graph is



(A) 

(B) 

(C) 

(D) 

Answer Key

Q1	(B)	Q5	(A)
Q2	(D)	Q6	(C)
Q3	(B)	Q7	(A)
Q4	(C)	Q8	(C)