LBNPS JAUNPUR

PHYSICS CHAPTER- MOTION CLASS- IX

Questions (LEVEL-2)

Que 1. Draw a velocity-time graph to show that — A car accelerates uniformly from rest for 5 seconds then its travels at a steady velocity for 5 second.

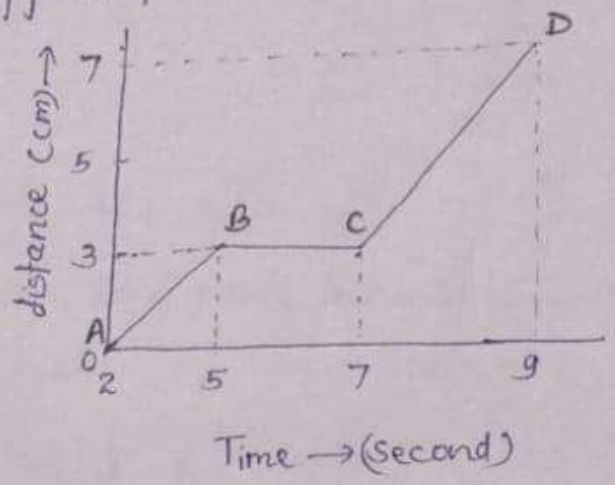
Que 2. A motorcycle is being driven at a speed of 20 m/s when brakes applied to bring it to rest in five seconds. The deceleration produced in this case will be —

Que 3. The graph given alongside shows the positions of a body at different times.

(i) A to B

(ii) B to C

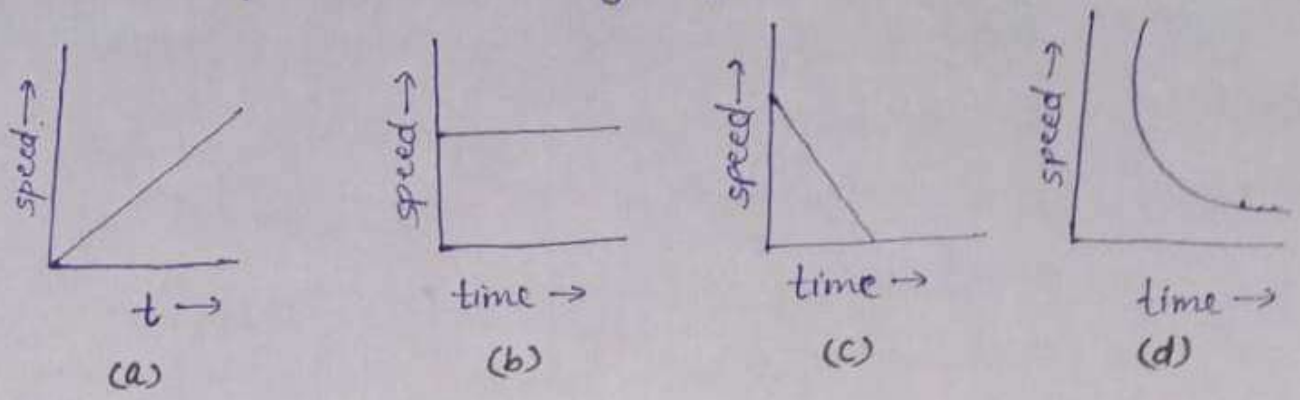
(iii) C to D



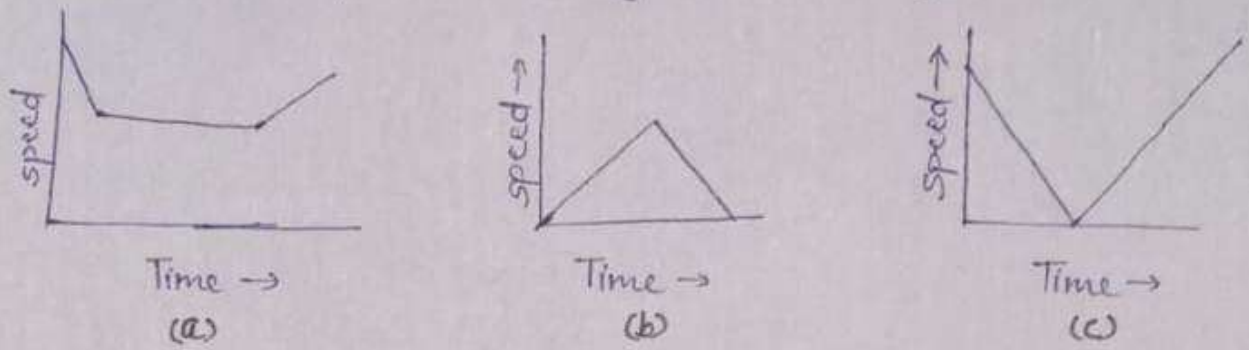
Que 4. A body is moving uniformly in a straight line with a velocity of 5 m/s. Find the graphically the distance covered by it in 5 seconds.

Que 5. A car is travelling along the road at 8 m/s. It accelerates at 1 m/s² for a distance of 18 m. How fast is it then travelling?

Que 6. What type of motion is represented by each one of the following graphs?



Que 7. Three speed-time graphs are given below:-



which graph represents the case of :-

(i) a cricket ball thrown vertically upwards and returning to the hands of the thrower?

(ii) A trolley decelerating to a constant speed and then accelerating uniformly?

Que 8. What conclusion can you draw about the acceleration of a body from the speed-time graph shown below?