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REVISION PRACTICE ASSIGNMENT (RPA)
SUBJECT-__PHYSICS
SESSION-2020-21
CLASS-IX
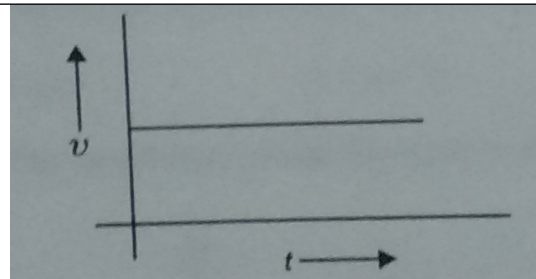
TOPIC: CHAPTER_08_ MOTION

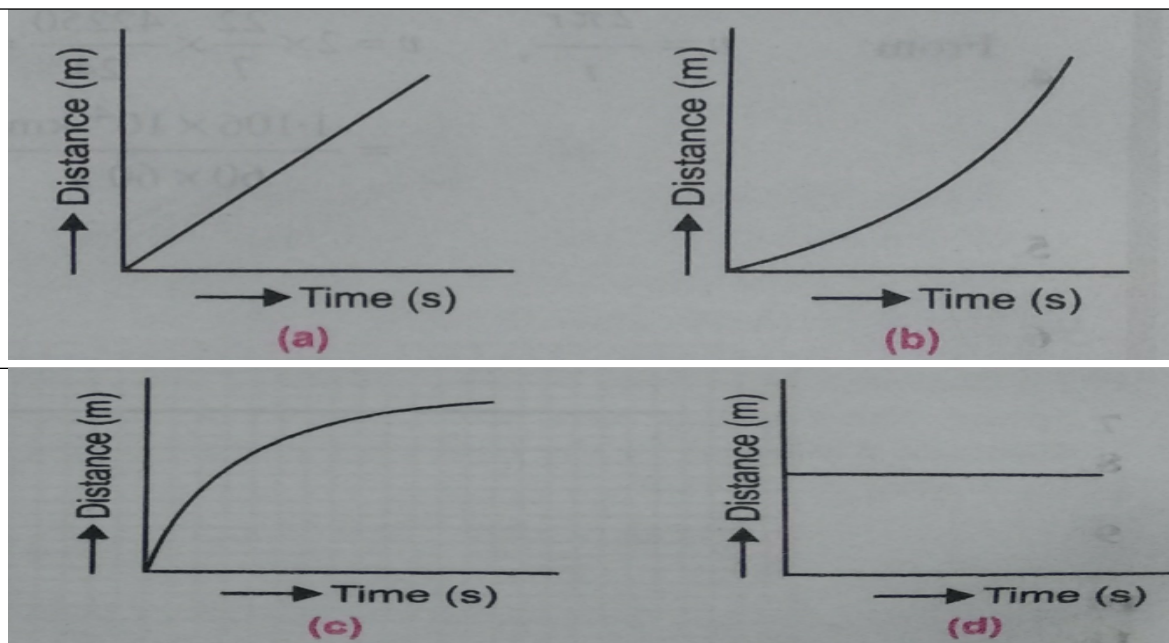SCETION :- I :   Objective Questions : MCQ Types   1X 5 =5

1. From the given v-t graph we can say that the object is :-

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

2.Which of the following figure represents uniform motion of a moving object correctly?

3. Four cars A, B, C and D are moving on a levelled road. Their distance versus time graphs are shown below. Choose the correct statement.

(a) Car A is faster than Car D

(b) Car B is slowest

(c) Car D is faster than Car C

(d) Car C is the slowest
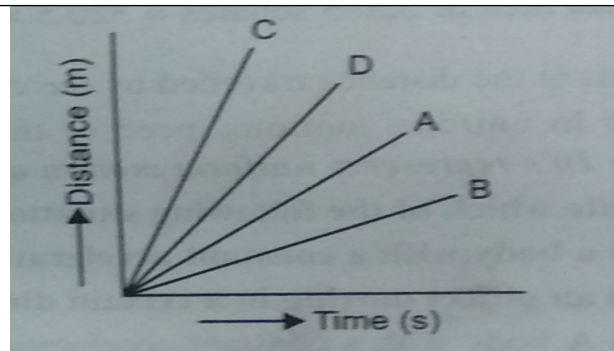
4. Area under v-t graph represents a physical quantity which has the unit :-

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

5. Slope of a velocity - time graph gives :-

(a) the distance.   (b) the displacement.   (c) the acceleration.   (d) the speed

SCETION :- II. :   Objective Questions : Fill in the blanks   1 X 5 = 5

6. In uniform circular motion .... is constant but not the ....

7. The displacement can be .... even when distance travelled is ....

8. Slope of v-t graph of a body represents .... of the body.

9. The motion of second's hand of a watch is an example of ....

10. Negative acceleration is called ....

SCETION :- III. :   Short Answer Type Questions:-   2 X 3 = 6

11. Differentiate between distance and displacement.

12. Differentiate between speed and velocity.

13. Define acceleration. Write its SI unit. Is it a scalar or a vector quantity. Draw v-t graph representing the motion of a body with uniform acceleration.

SCETION :- IV :   Long Answer Type Questions :-   1 X 4 = 4

14. Prove the following equations of motion graphically.

(a). v = u + at.   (b). S = ut + 1/2 at^2.   (c). $V^2 = u^2 + 2aS$

Where,.   u = initial velocity.   t = time interval   S = displacement

        v = final velocity.   a = constant acceleration.