## Exercise -2(C)

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 Write three equations of uniformly accelerated motion relating the initial velocity (u), final velocity (v), time (t), acceleration (a) and displacement (S).

Solution:

The three equations of uniformly accelerated motion relating to initial velocity(u), final velocity(v), time(t), acceleration(a) and displacement(S) are as follows:

- (i) v = u + at
- (iii)  $S = ut + \frac{1}{2} at^2$
- (iiii)  $v^2 = u^2 + 2As$
- 2. Derive the following equations for a uniformly accelerated motion:
  - (i)  $\mathbf{v} = \mathbf{u} + \mathbf{a}\mathbf{t}$
  - (iii)  $S = ut + \frac{1}{2}at^2$
  - (iiii)  $v^2 = u^2 + 2As$

where the symbols have their usual meanings.

Solution:

Let initial velocity (u), final velocity(v), time(t), acceleration(a) and displacement(S)



## First law of Motion

We know that acceleration is the rate of change of velocity;

$$a = \frac{Final\ velocity - Initial\ velocity}{time\ taken}$$
 
$$a = \frac{v - u}{t}$$

$$at = v - u$$
  
 $\therefore v = u + at$  ------- equation (1)

(ii) We know that distance travelled = average velocity x time

$$S = \frac{\text{Initial velocity} + \text{Final velocity}}{2} \quad x \text{ time}$$

$$S = \frac{u + v}{2} \quad x \text{ time}$$

From equation (1),  $\mathbf{v} = \mathbf{u} + \mathbf{a}\mathbf{t}$ , substituting the value of  $\mathbf{v}$  in the above equation;

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