

T is the tension in the string. [Choose the correct alternative].

Answer

(i) When a particle connected to a string revolves in a circular path around a centre, the centripetal force is provided by the tension produced in the string. Hence, in the given case, the net force on the particle is the tension T , i.e.,

$$F = T = \frac{mv^2}{r}$$

Where F is the net force acting on the particle.

Question 5.5:

A constant retarding force of 50 N is applied to a body of mass 20 kg moving initially with a speed of 15 ms^{-1} . How long does the body take to stop?

Answer

Retarding force, $F = -50 \text{ N}$

Mass of the body, $m = 20 \text{ kg}$

Initial velocity of the body, $u = 15 \text{ m/s}$

Final velocity of the body, $v = 0$

Using Newton's second law of motion, the acceleration (a) produced in the body can be calculated as:

$$F = ma$$

$$-50 = 20 \times a$$

$$\therefore a = \frac{-50}{20} = -2.5 \text{ m/s}^2$$

Using the first equation of motion, the time (t) taken by the body to come to rest can be calculated as:

$$v = u + at$$

$$\therefore t = \frac{-u}{a} = \frac{-15}{-2.5} = 6 \text{ s}$$

Question 5.6:

A constant force acting on a body of mass 3.0 kg changes its speed from 2.0 m s^{-1} to 3.5 m s^{-1} in 25 s . The direction of the motion of the body remains unchanged. What is the magnitude and direction of the force?

Physics Classroom Solution Guide

Tao Wei



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