

## Questions of Exercise

**Q.5.2** Explain the difference between tangential velocity and the angular velocity, if one of these is given for a wheel of known radius, how will you find the other? (Lhr 2016 G II, 2017 G II)

**Ans.** Difference between tangential and angular velocities

- Angular velocity  $\omega$  is directed along axis of rotation while tangential velocity  $v$  is directed along tangent to the circle.
- Unit of  $\omega$  is rad/s while unit of  $v$  is m/s.

**Determination**

We can find the other velocity by using the following equation.

$$v = r \omega$$

**Q.5.2** Explain what is meant by centripetal force and why it must be furnished to an object if the object is to follow a circular path? (Rwp 2016, Grw 2016, Lhr 2016 G I, Swi 2016, Bwp 2015)

**Ans.** The force which bends the normally straight path into circular path is called centripetal force.

Or

The force which compels a body to move along a circular path is called centripetal force.

Mathematically,

$$F_c = \frac{mv^2}{r}$$

**Significance:**

It is perpendicular to the tangential velocity and directed towards the center of the circular path. Without centripetal force body will move along the tangent.

**Q.5.3** What is meant by moment of inertia? Explain its significance.

(Mirpur 2016, Federal 2017, Bwp 2016-2017, Mtn 2015, Lhr 2016, 2017 G II)

**Ans.** The moment of inertia of a particle is defined as the product of its mass and the square of its perpendicular distance from axis of rotation.

Mathematically,  $I = mr^2$  (for a point mass)

**Physical Significance:**

The moment of inertia plays same role during angular motion as by mass during linear motion.

Mass is the measure of linear inertia while moment of inertia is the measure of rotational inertia of body. Moment of inertia determines the angular acceleration while mass determine the linear acceleration.

**Q.5.4** What is meant by angular momentum? Explain the law of conservation of angular momentum? (Mir Pur 2014, Bwp 2016, Fsd 2017, Mtn 201)

**Ans.** The product of moment of inertia and angular velocity of a rotating body is called angular momentum

It is denoted by  $\vec{L}$ . Mathematically

$$\vec{L} = \vec{r} \times \vec{p}$$

$$L = rp \sin \theta$$

# Krugman Questions And Solutions Ninth Edition

## Chapter5

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