

## 1

## CIRCULAR MOTION

*Synopsis*

1. Circular Motion :  
When a body moves such that it keeps equal distance from axis of rotation, the body is in circular motion.
2. Radius Vector :
  - i. Vector drawn from centre to position of body performing circular motion.
  - ii. Always directed along radius away from centre.
  - iii. SI units is *metre or m*.
  - iv. Dimension  $[M^0 L^1 T^0]$
  - v. The position or radius vector of body has constant magnitude but different direction.
3. Angular Displacement ( $\theta$ ) :
  - i. Angle traced by radius vector for a body in circular motion.
  - ii. Infinite value is scalar, but infinitesimal value
5. Angular Acceleration ( $\alpha$ ) :
  - i. Rate of change of angular velocity for a body is circular motion.
  - ii. It is a vector along the axis of rotation, given by right hand rule.
  - iii.
    - a. If ' $\omega$ ' is increasing, then  $\vec{\omega}$  and  $\vec{\alpha}$  are in same direction.
    - b. If ' $\omega$ ' is decreasing, then  $\vec{\omega}$  and  $\vec{\alpha}$  are in opposite direction.
  - iv. SI unit is *rad/s<sup>2</sup>*
  - v. Dimension  $[M^0 L^0 T^{-2}]$



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Chapter 01 : Circular Motion Subtopics 1.0 Introduction 1.1 Angular displacement 1.2 Angular velocity and angular acceleration 1.3 Relation between linear velocity and angular velocity 1.4 Uniform Circular Motion 1.5 Acceleration in U.C.M (Radial acceleration) 1.6 Centripetal and centrifugal forces 1.7 Banking of roads 1.8 Vertical circular motion due to earth's gravitation 1.9 Equation for ...

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Chapter 01: Circular Motion 58. i.  $m = 0.4 \text{ kg}$   $v = 15 \text{ m/s}$ ,  $r = 1.2 \text{ m}$   $v = r\omega$   $\omega = 15/1.2 = 12.5 \text{ rad/s}$   $T\omega = 2\pi$   $T = 2\pi/12.5 = 0.4 \text{ s}$  1.2 = 71.08 N ii.  $T\omega = 2\pi$   $\omega = 2\pi/T = 0.4 \text{ s}$  1.2 = 78.92 N 59. At any point, T.E. = 5 2 mgr = 5 2 8 9.8 1 = 196 J 60. K.E.(bottom) K.E.(top) = 1 2 m [5rg rg] = 1 2 m 4rg = 2 mgr = 2 4 9.8 0.6 = 47.04 J. 61.  $T\omega = 2\pi$   $\omega = 2\pi/T = 0.6$  ((15)2 1.8 - 9.8) ...

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Q.8) In Vertical Circular Motion , the \_\_\_\_ is conserved . a)Potential Energy b) Total Energy c) Kinetic Energy d) velocity \_\_\_\_ Wrong. Answer : b. Correct Answer ! Wrong. Answer : b. Wrong. Answer : b. Q.9) Level 2 . Q.1) In half period of revolution , the displacement and distance covered is \_\_\_\_ . a) 2r ,  $\pi r$  b)  $\pi r$  , 2r c) 2 $\pi r$  , 2r d) 0 , 2 $\pi r$  \_\_ Correct Answer ! Wrong. Answer : a. Wrong ...

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