

# FORMULAE IN PHYSICS STD. XII

## Chapter 1: Rotational Dynamics

- (1) In uniform circular motion,
  - (a) Angular displacement  $(\theta) = \frac{\text{Arc length (s)}}{\text{Radius (r)}}$
  - (b) Angular speed  $(\omega) = \frac{\theta}{t}$  or  $\vec{\omega} = \frac{d\theta}{dt}$
  - (c) Angular acceleration  $(\alpha) = \frac{\omega}{t}$  or  $\vec{\alpha} = \frac{d\vec{\omega}}{dt}$
  - (d) For one complete revolution  $\theta = 2\pi$  and  $t = T \therefore \omega = \frac{2\pi}{T} = 2\pi n$
  - (e) Frequency =  $\frac{1}{\text{Period}}$  i.e.  $n = \frac{1}{T}$  or  $T = \frac{1}{n}$
- (2) Linear velocity = Radius  $\times$  Angular velocity i.e.  $v = r\omega$
- (3) The magnitude of the centripetal acceleration,  $a_c = \frac{v^2}{r} = r\omega^2$
- (4) The magnitude of the centripetal force (C.P.F.),  $F = \frac{mv^2}{r} = mr\omega^2$
- (5) The magnitude of the centrifugal force (C.F.F.),  $F = \frac{mv^2}{r} = mr\omega^2$
- (6) **Maximum and minimum speed:**
  - (a) Maximum speed of vehicle on plane horizontal road,
 
$$v_{\max} = \sqrt{\mu_s rg} \quad \text{where, } \mu_s = \text{coefficient of static friction.}$$
  - (b) For well of death minimum speed of vehicle,  $v_{\min} = \sqrt{\frac{rg}{\mu_s}}$
  - (c) For Banked road,
    - (i) Most safe speed  $(v_s) = \sqrt{rg \tan \theta}$  (ii) Banking angle  $(\theta) = \tan^{-1} \left( \frac{v^2}{rg} \right)$
- (7) **Conical pendulum:**
  - (a) The period of conical pendulum of length  $(l)$  at semi vertical angle  $(\theta)$  is  $T = 2\pi \sqrt{\frac{l \cos \theta}{g}}$  or  $T = 2\pi \sqrt{\frac{r}{g \tan \theta}}$
  - (b) Frequency of conical pendulum,  $n = \frac{1}{2\pi} \sqrt{\frac{g}{l \cos \theta}}$  or  $n = \frac{1}{2\pi} \sqrt{\frac{g \tan \theta}{r}}$
  - (c) If  $\theta$  is small  $\cos \theta \approx 1$ .  $\therefore$  Period  $(T) = 2\pi \sqrt{\frac{l}{g}}$
- (8) Vehicle at the top of a convex over bridge,  $v_{\text{at top}} = \sqrt{rg}$

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**United States. Army. Corps of  
Engineers**



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