

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 (θ) 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 θ 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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