

⑤ Max. Speed of a vehicle to move on a convex bridge :-



**BANKING OF ROADS: -**

Case-I :- Rough horizontal Road (Suf Friction)

$$V_{max} = \sqrt{\mu Rg} \quad \omega_{max} = \sqrt{\frac{R}{\mu g}}$$

Case-II :- Smooth Banked Road (Suf Banking)

$$V_{max} = \sqrt{Rg \tan \theta}$$

Case-III :- Rough Banked Road (Banking + Friction)

$$V_{max} = \sqrt{Rg \left[ \frac{\tan \theta + \mu}{1 - \mu \tan \theta} \right]}$$

$$V_{min} = \sqrt{Rg \left[ \frac{\tan \theta - \mu}{1 + \mu \tan \theta} \right]}$$

Safe Side :-  $V_{min} < V < V_{max}$

**CONICAL PENDULUM:-**

$$\tan \theta = \frac{v^2}{Rg}$$



MR Special:-

•  $g$  - Value of a planet using Conical Pendulum:-

$$V = \sqrt{Rg \tan \theta} = \frac{2\pi r}{T} \quad \left( g = \frac{4\pi^2 r}{T^2 \tan \theta} \right)$$

• T.P. of Conical Pendulum:-

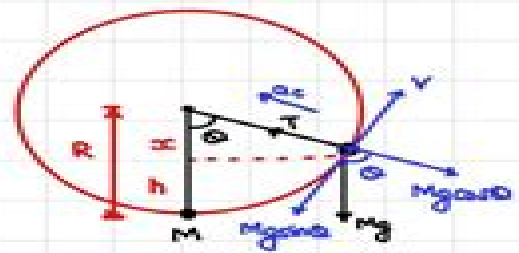
$$T_p = 2\pi \sqrt{\frac{l \cos \theta}{g}}$$

$$T_p = 2\pi \sqrt{\frac{h}{g}}$$

$$T_p = 2\pi \sqrt{\frac{(l^2 - r^2)^{1/2}}{g}}$$



**VERTICAL CIRCULAR MOTION:-**



At any point:-

$$T_a = Mg \cos \theta + \frac{Mv^2}{R}$$

$$T_p = 3Mg (1 + \cos \theta)$$

$$V_p = \sqrt{gR [3 + 2 \cos \theta]} \quad h = R [1 - \cos \theta]$$

$$PE_p = MgR [1 - \cos \theta] = Mgh$$

$$KE_p = \frac{1}{2} MgR [3 + 2 \cos \theta] = \frac{1}{2} Mv^2$$

$$TE = \frac{5}{2} MgR \text{ Constant.}$$

• IF  $0 < v \leq \sqrt{2gR}$

- oscillation •  $T \neq 0$  •  $v = 0$
- $0 < \theta < 90^\circ$

$$T_p = Mg \cos \theta \quad V_L = \sqrt{2gR [1 - \cos \theta]}$$

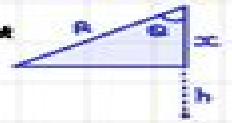
$T = Mg [3 - 2 \cos \theta]$  (Lowest position)

•  $V_L = \sqrt{gR} \quad \theta = 60^\circ$   
 $a_t = g \sin \theta$

•  $V_L = \sqrt{2gR} \quad \theta = 90^\circ$   
 $a_t = g$

•  $\sqrt{2gR} < V_L \leq \sqrt{5gR}$   
 (Parabolic Path) ( $T=0$ ) ( $v \neq 0$ )  
 ( $90^\circ < \theta < 180^\circ$ )

•  $h = R [1 + \cos \theta]$

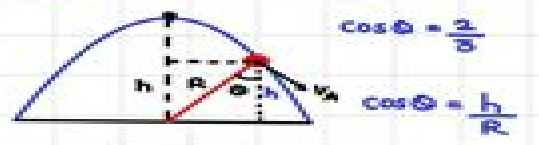


•  $V_p = \sqrt{gR \cos \theta}$

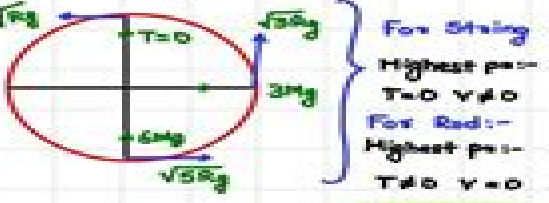
~~2gR~~  $\cos \theta = \frac{V_L^2 - 2Rg}{3Rg}$

•  $h = R [1 + \cos \theta]$

**PARTICLE LEAVING CONTACT WITH SEMISPHERE:-**



$V_p = \sqrt{2gR [1 - \cos \theta]}$



For String  
 Highest pt -  $T=0, v \neq 0$   
 For Rod -  
 Highest pt -  $T \neq 0, v = 0$

# Circular Motion Physics Chapter Important Notes 12th Hsc

**Hussin A.Rothana**



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