'PROJECTILE MOTION'

If velocity of particle in one direction is const & Acceleration which is in ⊥ direction Remain same w.r.t Motion of particle is called projectile & It path is always parabolic.

Ground – Ground projection

$$T = \frac{2u\sin\theta}{g} = \frac{2u_y}{g} \quad \leftarrow \text{time of flight}$$

$$h_{max} = \frac{u^2\sin^2\theta}{2g} = \frac{u_y^2}{2g} \rightarrow \text{max height}$$

$$R = (u\cos\theta)T = \frac{2u_x u_y}{g} = \frac{u^2\sin\theta}{g}$$

$$\vec{V} = (u\cos\theta)\hat{i} + (u\sin\theta - gt)\hat{j}$$

$$\vec{\alpha} = (u\cos\theta t)\hat{i} + (u\sin\theta t - \frac{1}{2}gt^2)\hat{j}$$

$$y = x\tan\theta - \frac{gx^2}{2u^2\cos^2\theta} = x\tan\theta\left[1 - \frac{x}{R}\right]$$

* From bottom to top α ↓
* At top position $\alpha = 0$
* from top to bottom α ↑

* Horizontal Range
$$\boxed{R = \frac{u^2\sin 2\theta}{g}}$$

* K.E at lowest point
$$\boxed{K = \frac{1}{2}mu^2}$$

* velocity at time 't'
Horizontal
$$\boxed{V_x = u\cos\theta <1}$$
Vertical
$$\boxed{V_y = (u\sin\theta) - gt}$$

* Angle of velo. from x-axis
$$\alpha = \tan^{-1}\left(\frac{V_y}{V_x}\right) = \tan^{-1}\left(\frac{u\sin\theta - gt}{u\cos\theta}\right)$$

* Disp. at time 't'
$$|\vec{r}| = \sqrt{x^2 + y^2}$$

NOTE→ Horizontal component of velocity Remain same all points of its path
* At top point path of particle is circular & Reluctant velo. Remain same

Special case for Ground to Ground projection

case-I → Max Range condition
$$R = \frac{u^2\sin 2\theta}{g}$$

* $u = c, g = c \Rightarrow R_{max} = f(\theta)$

$(\sin 2\theta) = 1$
⇓
$2\theta = 90°, \pi/2$

$$\boxed{\theta = 45° / \pi/4}$$

$$\boxed{R_{max} = \frac{u^2}{g} = R_{45°}}$$
$$\boxed{h_{45°} = \frac{u^2\sin^2 45°}{2g} = \frac{u^2}{4g}}$$

$\theta = 90°$ (vertical projection)

$$\boxed{R_{90} = 0}$$
$$\boxed{T_{max} = \frac{2u}{g} = T_{90}}$$

$$h_{90} = \frac{u^2}{2g} = \frac{R_{45}}{2} \Rightarrow \boxed{R_{45} = 2h_{90}}$$
$$\boxed{h_{45°} = \frac{R_{45}}{4} = \frac{h_{90}}{2}}$$

$$\boxed{\begin{array}{l}R_{max} \Rightarrow \theta \Rightarrow 45° \\ H_{max} \\ T_{max}\end{array} \Rightarrow \theta = 90°}$$

$$\boxed{\begin{array}{l}|a| \rightarrow 0 \leq \theta \leq 45 \\ \theta\uparrow, T\uparrow, h_{max}\uparrow, R\uparrow \\ |b| \rightarrow 45° < \theta < 90° \\ \theta\uparrow, T\uparrow, h_{max}\uparrow, R\downarrow\end{array}}$$

④

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