



## Graphical Questions

1. (d)  $R = \frac{u^2 \sin 2\theta}{g} = \frac{2u_x v_y}{g}$

$\therefore$  Range  $\propto$  horizontal initial velocity ( $u_x$ )

In path 4 range is maximum so football possess maximum horizontal velocity in this path.

2. (a) If air resistance is taken into consideration then range and maximum height, both will decrease.

3. (b)

4. (c)

5. (d)

