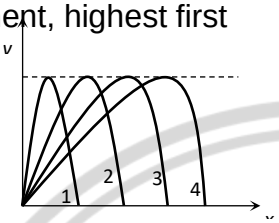
Graphical question

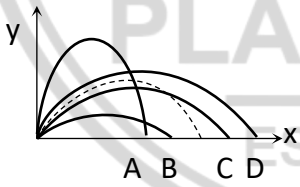
1. Figure shows four paths for a kicked football. Ignoring the effects of air on the flight, rank the paths according to initial horizontal velocity component, highest first

(a) 1, 2, 3, 4
(b) 2, 3, 4, 1
(c) 3, 4, 1, 2
(d) 4, 3, 2, 1



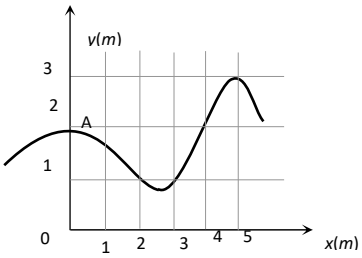
2. The path of a projectile in the absence of air drag is shown in the figure by dotted line. If the air resistance is not ignored then which one of the path shown in the figure is appropriate for the projectile

(a) B
(b) A
(c) D
(d) C

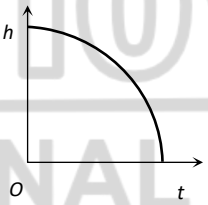


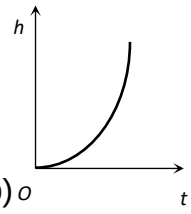
3. The trajectory of a particle moving in vast maidan is as shown in the figure. The coordinates of a position *A* are (0,2). The coordinates of another point at which the instantaneous velocity is same as the average velocity between the points are

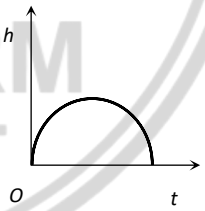
(a) (1, 4)
(b) (5, 3)
(c) (3, 4)
(d) (4, 1)

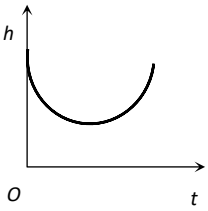


4. Which of the following is the graph between the height (*h*) of a projectile and time (*t*), when it is projected from the ground

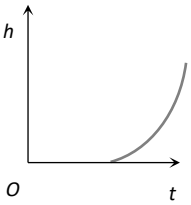
(a) 

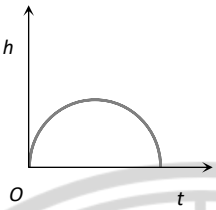
(b) 

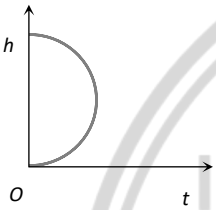
(c) 

(d) 

5. Which of the following is the altitude-time graph for a projectile thrown horizontally from the top of the tower

(a) 

(b) 

(c) 

(d)