

Objective Type Questions & Answers

Select the correct answer from the following choices:

1) The change in position of a body from its initial position to final position is called.

- a. speed b. velocity c. acceleration d. displacement

2) A body moving with uniform velocity has acceleration.

- a. zero b. positive c. negative d. Infinite

3) The velocity-time graph is parallel to time axis; the acceleration of the moving body is.

- a. maximum b. negative c. positive d. zero

4) If a car moves with uniform acceleration, then the area between the velocity time graph and the time axis is equal to.

- a. force b. velocity c. acceleration d. distance covered

5) When the value of average velocity and instantaneous velocity are equal, then the body is said to be moving with,

- a. average acceleration b. uniform acceleration
c. negative acceleration d. positive acceleration

13) Motion of the projectile is,

- a. one dimensional
- b. two dimensional
- c. three dimensional
- d. four dimensional

14) A bomber drops its bomb when it is vertically above the target. It misses the target due to,

- a. horizontal component
- b. vertical component of the velocity
- c. air resistance
- d. pull of gravity

15) The time of flight of a projectile is,

- a. $\frac{v_i^2 \sin^2 \theta}{g}$
- b. $\frac{v_i^2 \cos^2 \theta}{g}$
- c. $\frac{v_i^2 \sin^2 \theta}{2g}$
- d. $\frac{2v_i \sin^2 \theta}{g}$

16) The horizontal range of the projectile is maximum when it is projected at an angle of,

- a. 30°
- b. 45°
- c. 60°
- d. 90°

17) The maximum vertical height is,

- a. $\frac{v_i^2 \sin^2 \theta}{g}$
- b. $\frac{v_i \sin \theta}{2g}$
- c. $\frac{v_i^2 \cos^2 \theta}{g}$
- d. $\frac{v_i^2 \sin^2 \theta}{2g}$

18) To improve the span of the jump, one should jump at an angle of,

- a. 30°
- b. 45°
- c. 60°
- d. 90°

