

Mechanical Engineering Applied Mechanics Interview Questions with Answers Pdf Download

1. A body in simple harmonic motion will attain maximum velocity when it passes through

- a. extreme point of the oscillations of L.H.S.
- b. extreme point of the oscillations of R.H.S.
- c. mean position
- d. point of half amplitude

Ans: C

2. In actual machines

- a. mechanical advantage is equal to velocity ratio
- b. mechanical advantage is greater than velocity ratio
- c. mechanical advantage is less than velocity ratio
- d. mechanical advantage is unity

Ans: C

3. When a body moves round a fixed axis it will have

- a. a circular motion
- b. a rotary motion
- c. a translatory motion
- d., a swinging motion

Ans: A

4. The motion of a bicycle wheel is

- a. Linear
- b. Rotary
- c. Translatory
- d. Rotary as well as translatory

Ans: D

5. The locus of instantaneous centre of a moving rigid body

- a. Involute
- b. Cycloid

c. Epicycloid

d. Centroid

Ans: D

6. The principle of conservation of energy cannot be applied in case of

a. simple pendulum

b. a particle moving in gravitational field

c. frictionless movement of a principle over a surface

d. frictional movement of a particle over a surface

Ans: D

7. The resultant of a force acting on a body will be zero, if the body

a. rotates

b. does not rotate

c. rotates with uniform acceleration

d. rotates with uniform deceleration

Ans: B

8. The tension in the wire rope supporting a lift moving with a uniform velocity

a. is more when the lift is moving downwards

b. is less when the lift is moving upwards

c. is more when the lift is moving upwards

d. remains constant irrespective of the lift movement

Ans: D

9. The angle which an inclined surface makes with the horizontal when a body placed on it is on the point of moving down is known as

a. Angle of friction

b. Angle of limiting friction

c. Angle of inclination

d. Angle of repose

Ans: D

10. The moment of a force

a. occurs about a point

b. measures the capacity to do useful work

c. occurs only when bodies are in motion

d. measures the ability to produce turning or twisting about an axes

Ans: D

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