

## Civil Engineering Applied Mechanics Quiz Questions and Answers Pdf Download

### Question: 1

A heavy ladder resting on a floor and against a

- (A) floor and wall both are smooth surfaces
- (B) floor and wall both are rough surfaces
- (C) floor is smooth and the wall is rough
- (D) floor is rough and the wall is smooth

Ans: A

floor and wall both are smooth surfaces

### Question: 2

The velocity of a moving body is

- (A) a constant quantity
- (B) a scalar quantity
- (C) a vector quantity
- (D) none of these

Ans: C

a vector quantity

### Question: 3

Periodic time of body moving with simple harmonic motion is

- (A) inversely proportional to its angular velocity
- (B) inversely proportional to the square of its angular velocity

(C) directly proportional to the square of its angular velocity

(D) directly proportional to its angular velocity

Ans: A

inversely proportional to its angular velocity

**Question: 4**

A rigid body suspended vertically at a point and oscillating with a small amplitude under the action of the force of gravity is called

(A) second's pendulum

(B) simple pendulum

(C) compounder pendulum

(D) none of these

Ans: C

compounder pendulum

**Question: 5**

Newton's law of motion of rotation which states, Everybody continues in its state of rest or uniform motion of rotation about an axis unless it is acted upon by some external torque is

(A) first law of motion

(B) second law of motion

(C) third law of motion

(D) fourth law of motion

Ans: A

first law of motion

Question: 6

The tension in a cable supporting a lift

- (A) is more when the lift is moving downwards
- (B) is less when the lift is moving downwards
- (C) is less when the lift is moving upwards
- (D) remains constant whether it moves downwards or upwards

Ans: B

is less when the lift is moving downwards

Question: 7

According to Kennedy's theorem, if three bodies have plane motion, their instantaneous centres lie on

- (A) a triangle
- (B) two straight lines
- (C) a straight line
- (D) a point

Ans: C

a straight line

Question: 8

One Newton force, is

- (A)  $10^3$  dynes
- (B)  $10^4$  dynes
- (C)  $10^5$  dynes

(D)  $10^6$  dynes

Ans: C

$10^5$  dynes

**Question: 9**

The motion of a particle moving with S.H.M. from an extremely to the other, constitutes

(A) one full oscillation

(B) two oscillations

(C) half an oscillation

(D) none of these

Ans: C

half an oscillation

**Question: 10**

The centre of gravity of a plane lamina will not be at its geometrical centre if it is a

(A) circle

(B) square

(C) right angled triangle

(D) equilateral triangle

Ans: C

right angled triangle

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