

# Class 11 Physics Chapter 5 Laws of Motion MCQs

#### 1. What is the net force of a kite that is held stationary in the sky?

- (a) 1
- (b) Increasing
- (c) 0
- (d) Decreasing

#### 2. Which is the branch of physics that deals with the motion of a body by considering the cause?

- (a) Statics
- (b) Thermodynamics
- (c) Dynamics
- (d) Astronomy

## 3. What is the formula to find linear velocity?

- (a) Linear velocity = 2(Mass + Velocity)
- (b) Linear velocity = Mass / Velocity
- (c) Linear velocity = Mass \* Velocity
- (d) Linear velocity = Mass Velocity

#### 4. Which is the type of inertia?

- (a) Inertia of rest
- (b) Inertia of motion
- (c) Inertia of direction
- (d) All the above options

#### 5. When external force is not applied to the system, its total momentum

- (a) Becomes zero
- (b) Remains constant
- (c) Increases gradually
- (d) Decreases gradually



## 6. Apparent weight of a body = actual weight of the body, if the body

- (a) Moves with increasing velocity
- (b) Remains at rest
- (c) Remains in a state of uniform motion
- (d) Option (b) and (c)

#### 7. Forces acting for a short duration are called

- (a) Short force
- (b) Interval force
- (c) Impulsive forces
- (d) Interrupting force

# 8. An aircraft executes a horizontal loop at a speed of 720 km/h with its wings banked at 15°. What is the radius of the loop?

- (a) 15123 m
- (b) 23567 m
- (c) 12781 m
- (d) 14931 m

#### 9. The inherent property, with which a body resists any change in its state of motion is known as

- (a) Force
- (b) Momentum
- (c) Inertia
- (d) Acceleration

#### 10. **1 Newton =** -----

- (a) 1 Newton =  $1 \text{ kg x } 1 \text{ m/s}^2$
- (b) 1 Newton = 1 kg
- (c)  $1 \text{ Newton} = 1 \text{ kg x } 1 \text{ m/}^{s}$
- (d) 1 Newton =  $m/s^2$



# \*\*\*\*\*\*\*\*\*\* Answer Key \*\*\*\*\*\*\*\*\*

| 1(b) | 2(c) | 3(b) | 4(d) | 5(b)  |
|------|------|------|------|-------|
| 6(d) | 7(c) | 8(d) | 9(c) | 10(a) |



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