

Common Topics Covered in AFNS Physics Tests

Q: When the speed of a body does not change with time then its speed is called _____ speed.

- a) Uniform
- b) Variable
- c) Average
- d) Instantaneous

Correct Answer: a) Uniform

Q: The distance travelled by a body can also be found from the _____ under a velocity – time graph if the motion is along a straight line.

- a) Slope
- b) Area
- c) Length
- d) Height

Correct Answer: b) Area

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- b) Area
- c) Length
- d) Height

Correct Answer: b) Area

Q: The distance travelled in any direction by a body in unit time is called ____.

- a) Distance
- b) Displacement
- c) Speed
- d) Velocity

Correct Answer: c) Speed

Q: The location of a certain place or object from a reference point is called ____.

- a) Distance
- b) Displacement
- c) Position
- d) Velocity

Correct Answer: c) Position

Q: The shortest distance between two points is called the ____.

- a) Distance
- b) Displacement
- c) Position
- d) Velocity

Q: The shortest distance between two points is called the ____.

- a) Distance
- b) Displacement
- c) Position
- d) Velocity

Correct Answer: b) Displacement

Q: When it moves or tends to move, stops or tends to stop the motion of a body is called a ____.

- a) Force
- b) Momentum
- c) Energy
- d) Power

Correct Answer: a) Force



Physics

Q: The force can also change the ____ of a body.

- a) Mass
- b) Direction
- c) Shape
- d) Volume

Correct Answer: b) Direction

Q: A property of a body due to which it resists any change in its state of rest or motion is called ____.

- a) Force
- b) Inertia
- c) Momentum
- d) Energy

Correct Answer: b) Inertia

Q: The quantity of motion which possesses due to its mass and velocity of a body is called ____.

- a) Force
- b) Inertia
- c) Momentum
- d) Energy

Correct Answer: c) Momentum

Q: When a body continues its state of rest or of uniform motion in a straight line provided no net force acts on it is called Newton's ____ Law of Motion.

- a) First
- b) Second
- c) Third

Q: When a body continues its state of rest or of uniform motion in a straight line provided no net force acts on it is called Newton's _____ Law of Motion.

- a) First
- b) Second
- c) Third
- d) Fourth

Correct Answer: a) First

Q: $P = mv$ is the equation of _____.

- a) Force
- b) Momentum
- c) Energy
- d) Power

Correct Answer: b) Momentum

Q: Newton's First Law of Motion is also called _____.

- a) Law of Inertia
- b) Law of Momentum
- c) Law of Force
- d) Law of Energy

Correct Answer: a) Law of Inertia

Q: Newton's First law of Motion deals with the inertial property of ____.

- a) Matter
- b) Energy
- c) Force
- d) Power

Correct Answer: a) Matter

Q: When a net force acts on a body, it produces acceleration in the body in the direction of the net force. The magnitude of this acceleration is directly proportional to the net force acting on the body and inversely proportional to its mass is called ____ Law of Motion.

- a) First
- b) Second
- c) Third
- d) Fourth

Correct Answer: b) Second

Q: When a Bus takes a sharp turn, passengers fall in the outward direction. It is due to ____.

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- a) Force
- b) Inertia
- c) Momentum
- d) Energy

Correct Answer: b) Inertia

Q: When a Bus takes a sharp turn, passengers fall in the ____ direction. Because they want to continue their motion in a straight line.

- a) Inward
- b) Outward
- c) Forward
- d) Backward

Correct Answer: b) Outward

Q: When a net force acts on a body, it produces ____ in the body in the direction of the net force.

- a) Force
- b) Inertia
- c) Acceleration

Q: When a net force acts on a body, it produces _____ in the body in the direction of the net force.

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

Correct Answer: c) Acceleration

 **Physics**

Q: $F = ma$ is the equation of _____ Law of Motion.

- a) First
- b) Second
- c) Third
- d) Fourth

Correct Answer: b) Second

Q: In UK system the SI unit of Force is _____.

- a) Newton
- b) Dyne
- c) Pound
- d) Kilogram

Correct Answer: a) Newton

Q: The force which produces an acceleration of 1 ms^{-2} in a body of mass of 1 Kg.

- a) 1 N
- b) 1 Dyne
- c) 1 Pound
- d) 1 Kilogram

Correct Answer: a) 1 N

How to Prepare for AFNS Physics Tests in Limited Time?

Q: $1 \text{ N} =$ _____

- a) 1 kg ms^{-2}
- b) 1 g cm s^{-2}
- c) 1 lb ft s^{-2}
- d) 1 kg cm s^{-2}

Correct Answer: a) 1 kg ms^{-2}

Q: $W =$ _____

- a) mg
- b) ma
- c) mv
- d) mgh

Q: $W =$ _____

- a) mg
- b) ma
- c) mv
- d) mgh

Correct Answer: a) mg

Q: Forces equal but in opposite direction is called Newton's _____ Law of Motion.

- a) First
- b) Second
- c) Third
- d) Fourth

Correct Answer: c) Third  **Physics**

Q: When a force acts on a body, it produces acceleration in the body and will be equal to the rate of change of _____ of the body.

- a) Force
- b) Inertia
- c) Momentum
- d) Energy

Correct Answer: c) Momentum

Q: SI unit of Momentum is called

_____.

- a) Ns or Kgms⁻¹
- b) N or Kgms⁻²
- c) J or Kgms⁻²
- d) W or Kgms⁻²

Correct Answer: a) Ns or Kgms⁻¹

Q: The momentum of an isolated system of two or more than two interacting bodies remains constant is called _____.

- a) Law of conservation of Energy
- b) Law of conservation of Momentum
- c) Law of conservation of Force
- d) Law of conservation of Mass

Correct Answer: b) Law of conservation of Momentum

Q: The force that opposes the motion of moving objects is called _____.

- a) Force
- b) Friction
- c) Momentum
- d) Energy

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- a) Force
- b) Friction
- c) Momentum
- d) Energy

Correct Answer: b) Friction

Q: The motion of an object in a circular path is known as ____ motion.

- a) Translatory
- b) Rotatory
- c) Circular
- d) Random

Correct Answer: c) Circular

Q: The force which keeps a body to move in a circle is called ____ force.

- a) Centripetal
- b) Centrifugal
- c) Gravitational
- d) Frictional

Correct Answer: a) Centripetal

Q: Centripetal reaction that pulls the string outward is sometimes called the _____ force.

- a) Centripetal
- b) Centrifugal
- c) Gravitational
- d) Frictional

Correct Answer: b) Centrifugal

Q: According to Newton's _____ Law of motion, there exists a reaction when centripetal force acts.

- a) First
- b) Second
- c) Third
- d) Fourth

Correct Answer: c) Third

Q: When a car moves around the loop, the track provides _____ force to preventing it to move away from the circle.

- a) Centripetal
- b) Centrifugal
- c) Gravitational
- d) Frictional

Q: When a car moves around the loop, the track provides _____ force to preventing it to move away from the circle.

- a) Centripetal
- b) Centrifugal
- c) Gravitational
- d) Frictional

Correct Answer: a) Centripetal

Q: A body resists any change in its state of rest or uniform motion in a straight line is due to the _____.

- a) Force
- b) Inertia
- c) Momentum
- d) Energy

Correct Answer: b) Inertia

Q: The quantity of motion possessed by the body is called _____.

- a) Force
- b) Inertia
- c) Momentum
- d) Energy

Q: The product of mass and velocity is called ____.

- a) Force
- b) Inertia
- c) Momentum
- d) Energy

Correct Answer: c) Momentum

 **Physics**

Q: Momentum is a ____ quantity.

- a) Scalar
- b) Vector
- c) Base
- d) Derived

Correct Answer: b) Vector

Q: The SI unit of Mass is ____.

- a) Newton
- b) Kilogram
- c) Joule
- d) Watt

Correct Answer: b) Kilogram

Q: Force of gravity acting on the body

Q: Force of gravity acting on the body is called ____.

- a) Mass
- b) Weight
- c) Momentum
- d) Energy

Correct Answer: b) Weight

Q: The SI unit of weight is called ____.

- a) Newton (N)
- b) Kilogram
- c) Joule
- d) Watt

Correct Answer: a) Newton (N)

Q: The law which states that the momentum of an isolated system of two or more than two interacting bodies remains constant is called ____.

- a) Law of Conservation of Energy
- b) Law of Conservation of Momentum
- c) Law of Conservation of Force