



SSC Questions on Laws of Motion PDF

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Instructions

For the following questions answer them individually

Question 1

The motion of the wheels of a bullock-cart while moving on the road is an example of

- A Oscillatory and rotatory motion
- B Oscillatory and translatory motion
- C Translatory and rotatory motion
- D Translatory motion only

Answer: C

Question 2

A particle is moving in a uniform circular motion with constant speed v along a circle of radius r . The acceleration-of the particle is

- A zero
- B V / r
- C V / r^2
- D V^2 / r

Answer: C

Question 3

In a projectile motion, the velocity:

- A is always perpendicular to the acceleration
- B is never perpendicular to the acceleration
- C is perpendicular to the acceleration for only one instant
- D is perpendicular to the acceleration for two instants only

Answer: C

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Question 4

The principle involved in the motion of a rocket is :

- A Law of conservation of energy
- B Newton's first law
- C Law of conservation of mass
- D Law of conservation of momentum

Answer: D

Question 5

The Objects in motion on ground level possess _____ energy. (Taking ground level as 0 potential)

- A frictional
- B kinetic
- C potential
- D gravitational

Answer: B

Question 6

Car moving on a straight road is an example of _____ motion.

- A rectilinear
- B curvilinear
- C random
- D periodic

Answer: A

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Question 7

Which force acts in the direction opposite to the motion of the object, which is between the surface of the ground and the object opposing the motion of the object?

- A Force of gravity
- B Magnetic force
- C Electrostatic force
- D Force of friction

Answer: D

Question 8

Which of the following physical quantities changes or tends to change the state of rest or of uniform motion of a body in a straight line?

- A Force
- B Mass
- C Momentum
- D Inertia

Answer: A

Question 9

In which of the following examples will an athlete have maximum accelerated motion?

- A Running on an octagonal track
- B Running on a hexagonal track
- C Running on a rectangular track
- D Running on a circular track

Answer: D

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Question 10

Which of the following changes when a body performs uniform circular motion?

- A Mass
- B Momentum
- C Speed
- D Direction

Answer: D

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