



## **Force and Laws of Motion Questions for RRB NTPC**

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### Instructions

For the following questions answer them individually

#### Question 1

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 2

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**

#### Question 3

The second equation of motion gives the relation between:

- A Velocity and time
- B Position and velocity
- C Position and time
- D Velocity and acceleration

**Answer: C**

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#### Question 4

When a force resists the relative motion between two surfaces, it is called .....

- A Resistance
- B Convection
- C Friction
- D Induction

**Answer: C**

### Question 5

On applying a constant force to a body, it moves with uniform\_:

- A Momentum
- B Speed
- C Velocity
- D Acceleration

**Answer:** D

### Question 6

Newton's second law of motion .....

- A is also called as law of conservation of momentum.
- B is also called as law of inertia
- C describes the relationship between the forces on two interacting objects.
- D explains about change in momentum.

**Answer:** D

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### Question 7

Name the external force that acts radially inward during the circular motion of a body.

- A Centripetal force
- B Centrifnal force
- C Gravitational force
- D Inertial force

**Answer:** A

### Question 8

Energy possessed by a body due to its motion is known by what name?

- A Kinesthetic energy
- B Final energy
- C Kinetic energy
- D Potential energy

**Answer:** C

### Question 9

If the force applied on the object is in the direction opposite to the direction of motion, the speed of the object \_\_\_\_\_.

- A increases
- B stops
- C decreases
- D no effect

**Answer:** C

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### Question 10

If a body slides over a surface, the force resisting the motion between them is called .....

- A Centripetal force
- B Friction
- C Centrifugal force
- D Inertia

**Answer:** B

### Question 11

Motion of a train is an example of which kind of motion?

- A Rotatory motion
- B Spin motion
- C Projectile motion
- D Translatory motion

**Answer:** D

### Question 12

A cannon ball is fired. The motion of this ball is an example of \_\_\_\_.

- A Straight line motion
- B projectile motion
- C Hyperbolic motion
- D horizontal motion

**Answer:** B

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### Question 13

Which force helps swimmers float in water?

- A** Muscular force
- B** Magnetic force
- C** Buoyant force
- D** Frictional force

**Answer: C**

**Question 14**

According to \_\_\_\_, pressure is equal to the force divided by the area on which it acts.

- A** Hooke's Law
- B** Newton's Law
- C** Pascal's Law
- D** Stefan-Boltzmann Law

**Answer: C**

**Question 15**

Calculate the work done by the force of gravity when satellite moves in an orbit of radius 40,000 km around the earth.

- A** 8,000 J
- B** 4,00,000 J
- C** 0 J
- D** 4,000 J

**Answer: C**

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