

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 guartities show

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

Whena force resists the relative motion between two surfaces, it is called

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

Answer: C



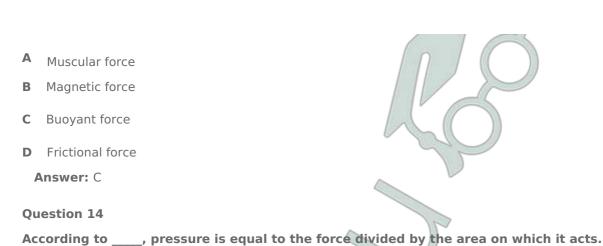
Question 5 On applying a constant force to a body, it moves with uniform_: Momentum Speed Velocity Acceleration Answer: D **Question 6** Newton's second law of motion is also called as law of conservation of momentum. is also called as law of inertia describes the relationship between the forces on two interacting objects. explains about change in momentum. Answer: D **RRB NTPC Free Mock Test Question 7** Name the external force that acts radically inward during the circular motion of a body. Centripetal force Centrifnal force Gravitational force Inertial force Answer: A **Question 8** Energy possessed by a body due to its motion is known by what name? Kinesthetic energy Final energy Kinetic energy 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
В	stops
С	decreases
D	no effect
P	Answer: C
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	estion 10
If a body slides over a surface, the force resisting the motion between them is called	
A	Centripetal force
В	Friction
С	Centrifugal force
D	Inertia
P	Answer: B
Question 11	
Мо	tion of a train is an example of which kind of motion?
A	Rotatory motion
В	Spin motion
С	Projectile motion
D	Translatory motion
A	Answer: D
Question 12	
A	cannon ball is fired. The motion of this ball is an example of
A	Straight line motion
В	projectile motion
С	Hyperbolic motion
D	horizontal motion
P	Answer: B

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Question 13

Which force helps swimmers float in water?



A Hooke's Law

B Newton's Law

C Pascal's Law

D Stefan-Boltzmann Law

Answer: C

Ouestion 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: 0

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