

Dynamic

Sr	Questions	Answers Choice
1	A force of 5 N is applied to a body weighing 10 N. Its acceleration in m/s^2 is	A. 0.5 B. 2 C. 5 D. 50
2	Thrust force is a consequence of which law of motion.	A. First B. Second C. Third D. Fourth
3	Inertia of a body is related to which of the following quantities	A. Friction B. Force C. Mass D. Weight
4	The force which moves the car is	A. Force of friction between road tyre B. Force developed by engine C. Uniform velocity D. Water split on the road
5	Which of the following is a non-contact force.	A. Friction B. Electrostatic force C. Air resistance D. Tension in the string
6	Conservation of Linear momentum is equivalent to.	A. Newton's First law of motion B. Newton's second law of motion C. Newton's third law of motion D. None of these
7	N kg^{-1} is equivalent to	A. m s^{-1} B. m s^{-2} C. kg ms^{-1} D. kg m s^{-2}
8	A ball with initial momentum p hits a solid wall and bounces back with the same velocity. Its momentum p' after collision will be.	A. $p' = p$ B. $p' = -p$ C. $p' = 2p$ D. $p' = -2p$
9	A bucket having some water is revolved in a vertical circle. Water does not spill out, even the bucket is upside down, due to.	A. Centrifugal force on water B. Weight of water C. Inertia of water D. Action and Reaction balance each other
10	An object with a mass 5 kg moves at a constant velocity of 10 ms^{-1} . A constant force then acts for 5 seconds on the object and gives it a velocity of 2 ms^{-1} . In the opposite direction, the force acting on the object is.	A. -12 N B. 5 N C. -10 N D. -15 N
11	An object of mass 1 kg placed at earth's surface experiences a force of.	A. 1 N B. 9.8 N C. 100 N D. Any Value
12	A force acts on a body for 2 seconds and it produces 50 kg m/s change in its momentum. The force acting on the body	A. 25 N B. 100 N C. 2 N D. 50 N
13	A book of mass 5 kg is placed on the table, the magnitude of net force acting on the book is.	A. 0 N B. 25 N C. 5 N D. 10 N
14	At the fairground, the force that balances your weight is	A. Gravitational force B. Electrostatic force C. Centripetal force D. Frictional force
15	Net force on the body falling in air with uniform velocity is equal to.	A. Zero B. Weight of the body C. Air resistance on the body

		D. Difference of weight of body and air resistance on it.
16	What we kick a stone, we get hurt This is due to	A. Inertia B. Momentum C. Reaction D. Velocity
17	A large force acts on an object for a very short interval of time. In the case, it is easy to determine.	A. Magnitude of force B. Time interval C. Product of force and time D. None of these
18	When a hanging carpet is beaten by stick Dust flies off the carpet It is mainly due to.	A. Action force on carpet B. Inertia of dust C. Reaction force by carpet D. Rate of change of momentum of carpet
19	SI unit of linear momentum is	A. $\text{kg m}^{-1} \text{s}^{-1}$ B. kg m s^{-1} C. $\text{kg m}^2 \text{s}^{-1}$ D. Nm
20	A lubricant is usually introduced between two surfaces to decrease friction. The lubricant.	A. Decreases temperature B. Provides rolling friction C. Prevents direct contact of the surfaces D. Acts as ball bearings