Dynamic

Sr	Questions	Answers Choice
1	A particle of mass m moving with a velocity v collides with another particle of the same mass at rest. The velocity of the first particle after collision is.	A. 0 B. v C. -p D. - 1/2
2	An object with a mass 5 kg moves at constatn 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 objects is.	A. -12 N B. 5 N C. -10 N D. -15 N
3	Thrust force is a consequence of which law of motion.	A. First B. Second C. Third D. Fourth
4	N kg-1 is equivalent to	A. m s-1 B. m s-2 C. k g ms-1 D. kg m s-2
5	A force acts on a boyd for 2 seconds and it produces 50 kg m/s chagne in its momentum. The force acting on the body	A. 25 N B. 100 N C. 2 N D. 50 N
6	Which of the following is a non -contact force.	A. Friction B. Electrostatic force C. Air resistance D. Tension in the string
7	A lubricant is usually introduced between two surfaces to decresses friction. The lubricant.	A. Decreases temperture B. Provides rolling friction C. Prevents direct contact of the sturaces D. Acts as ball bearings
8	What we kick a stone, we get hurt This is due to	A. Inertia B. Momentum C. Reaction D. Velocity
9	A bucket having some water is revolved in 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. Inertial of water D. Action and Reaction balance each other
10	An object of mass 1 kg placed at earth's surface experience a force of.	A. 1 N B. 9.8 N C. 100 N D. Any Value
11	A force n 5 N is applied to a body weighing 10 N. Its accelerationin m/s2 is	A. 0.5 B. 2 C. 5 D. 50
12	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
13	Inertia of a body is related to which of the following quantitiies	A. Friction B. Force C. Mass D. Weight
14	SI unti of linear momentum is	A. kgm-1 s-1 B. kg m s-1 C. kg m2 s-1 D. Nm
15	Conservation of Linear momentum is equivalent to.	A. Newton's Firs law of motion B. Newton's second law of motion C. Newton's third law of motion

		D. None of these
16	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
17	At the fairground, the force that balances your weight is	A. Gravitatinal force B. Electrostatic force C. Centripetal force D. Frictional force
18	A ball with initial momentum p its 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
19	Net force n the body falling in air with uniform velicyt is equl to.	A. Zero B. Weight of the body C. Are resistance on the body D. Difference of weight of body and air resistance on it.
20	Change in momentum of a body is equal to	A. Force Velocity B. Force Time C. Mass time D. Force