

Worksheet

Practice. Learn. Succeed

Sub : Science

Grade: IX

Date:

Name:

ID No.....

Tick the Choice Question

- 1. A force of 'P' N acts on a particle so as to accelerate it from rest to a velocity 'v' m/s. The force 'P' is then replaced by 'Q' N which decelerates it to rest.**
 - a. P must be equal to Q
 - b. P may be equal to Q
 - c. P must be unequal to Q
 - d. none of these
- 2. Two objects each of mass 1.5 kg are moving in the same straight line but in opposite directions. The velocity of each object is 2.5 m/s before the collision during which they stick together. The velocity of the combined object after collision is**
 - (a) 0 m/s
 - (b) m/s
 - (c) 1.50 m/s
 - (d) 3.75 m/s
- 3. When a carpet is beaten with stick, dust comes out because**
 - a. inertia of rest keeps the dust in its position
 - b. inertia of motion removes the dirt
 - c. it is not inertia but the force we apply
 - d. jerk compensates for the force of adhesion between dust and carpet and dust is removed
- 4. A goalkeeper in a game of football pulls his hands backwards after holding the ball shot at the goal. This enables the goalkeeper to**
 - a. exert larger force on the ball
 - b. reduce the force exerted by the ball on hands
 - c. increase the rate of change of momentum
 - d. decrease the rate of change of momentum
- 5. A passenger in a moving train tosses a coin which falls behind him. It means that motion of the train is**
 - (a) accelerated
 - (b) uniform
 - (c) retarded
 - (d) along circular tracks