

10.S.1.(i) Laws of Motion

Fill in the blanks

1. To produce a displacement _____ is required.
2. Passengers lean forward when sudden brake is applied in a moving vehicle. This can be explained by _____.
3. By convention, the clockwise moments are taken as _____.
4. Anticlock wise moments are taken as _____.
5. _____ is used to change the speed of car.
6. A man of mass 100 kg has a weight of _____ at the surface of the Earth.
{ 980N negative positive force inertia of motion gear }

State whether the following statements are true or false.

1. The linear momentum of a system of particles is always conserved. _____
2. Apparent weight of a person is always equal to his actual weight _____
3. Weight of a body is greater at the equator and less at the polar region. _____
4. Turning a nut with a spanner having a short handle is so easy than one with a long handle. _____
5. There is no gravity in the orbiting space station around the Earth. So the astronauts feel weightlessness. _____

Match the following

Column I

1. Newton's I law
2. Newton's II law
3. Newton's III law
4. Law of conservation of Linear momentum

Column II

- propulsion of a rocket
- Stable equilibrium of a body
- Law of force
- Flying nature of bird

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