

## STD --- X-- SCIENCE

### LAWS OF MOTION

--- CHOOSE THE CORRECT ANSWER

1. Inertia of a body depends on

- a) weight of the object
- b) mass of the object
- c) acceleration due to gravity of the planet
- d) Both a & b

2. In which of the following sport the turning of effect of force used

- a) swimming
- b) tennis
- c) cycling
- d) hockey

3. Newton's III law is applicable

- a) for a body is at rest
- b) for a body in motion
- c) both a & b
- d) only for bodies with equal masses

4. If the Earth shrinks to 50% of its real radius its mass remaining the same, the weight of a body on the Earth will

- a) decrease by 50%
- b) increase by 50%
- c) decrease by 25%
- d) increase by 300%

5. Impulse is equals to

- a) rate of change of momentum
- b) rate of force and time
- c) change of momentum
- d) rate of change of mass

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