

STD --- X-- SCIENCE

LAWS OF MOTION

---- CHOOSE THE CORRECT ANSWER

1. Inertia of a body depends on

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|--|-----------------------|
| 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

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

3. Newton's III law is applicable

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|--------------------------|--------------------------------------|
| 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

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

5. Impulse is equals to

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