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# Questions:

## Short Answer

1. State Newton's laws of motion.
2. Deduce the equation of a force using Newton's second law of motion.
3. Give the applications of universal law of gravitation.

## Very Short Answer

4. Define inertia. Give its classification.
5. Differentiate mass and weight.
6. State Newton's second law.
7. Why a spanner with a long handle is preferred to tighten screws in heavy vehicles?
8. While catching a cricket ball the fielder lowers his hands backwards. Why?
9. How does an astronaut float in a space shuttle?

## Choose the correct answer

10. Inertia of a body depends on
    (a) weight of the object (b) acceleration due to gravity of the planet (c) mass of the object (d) Both a & b
11. 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
12. 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
13. In which of the following sport the turning of effect of force used?
    (a) swimming (b) tennis (c) cycling (d) hockey
14. The mass of a body is measured on planet Earth as M kg. When it is taken to a planet of radius half that of the Earth then its value will be_____kg
    (a) 4 M (b) 2 M (c) M/4 (d) M

## Fill in the blanks

15. To produce a displacement_____is required
16. Passengers lean forward when sudden brake is applied in a moving vehicle. This can be explained by_____
17. _____is used to change the speed of car
18. A man of mass 100 kg has a weight of _____at the surface of the Earth