

Force

Q1) What are the effects of forces?

Ans The effects of forces are:

- 1) A force can move a body originally at rest.
- 2) A force can stop a body.
- 3) A force can make a moving body to move faster.
- 4) A force can slow down a moving body.
- 5) A force can change the direction of motion of a moving body.
- 6) A force can change the shape or size of a body.

Q2) Define Contact forces and Non-contact force?

Ans Contact force is the force which acts on a body when the body is in contact with the force.

Non-Contact force is the force which acts on a body when the body is not in contact with another body.

Q3) What do you mean by normal force?

Ans Force is a Push or Pull which can change the state of rest or motion of the body or ~~can~~ can change the size and shape of the body.

(i.e. it can deform a body)

Q4) Differentiate mass and weight.

Ans
1) Mass
Mass is the amount of matter contained in a physical body

Weight
Weight is the gravitational force with which a physical body is attracted toward the center of the Earth.

2) SI Unit of Mass is kilogram (kg) and CGS unit is Gram (g)

SI Unit of weight is Newton (N) and CGS Unit is Dyne (dyne)

Q5) Define rolling friction with one example.

Ans When an object ~~rolls~~ rolls over a surface, the force which opposes the rolling motion of the object is called the rolling friction. Ex - vehicles like car, bus, ~~car~~ scooters ~~object~~ are provided with ~~w~~ wheels.

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