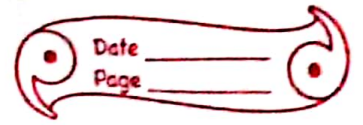


03/09/21

ch-3 - Force



Homework Questions

1. What are the effects of Force?

Ans The effects of force are:

- i) Force ~~can~~ can move a body originally at rest.
- ii) A force can stop a moving body.
- iii) A force can make a moving body to move faster.
- iv) A force can slow down a moving body.
- v) A force can change the direction of motion of a moving body.
- vi) It can change the shape or size of a body.

2. Define Contact and non-contact force.

Ans The force which acts on bodies by making an actual contact, is known as contact force.
Example \rightarrow Muscular force, frictional force, etc.

The forces which act on bodies ~~at~~ with no contact with them are called non-contact forces.

Ex \rightarrow Gravitational force, Magnetic force, electrostatic force, etc.

3. Define force of friction.

Ans. Friction is the force that opposes the relative motion between the two surfaces in contact with each other. It is a force that ~~is~~ opposes motion and always acts in a direction opposite to the direction of motion.

4. What are the disadvantages of friction.

Ans. The disadvantages of friction are:

- i) Friction opposes motion of a body.
- ii) It produces heat.
- iii) It causes wear and tear in the moving parts.
- iv) It reduces efficiency (which means more force is needed to move a body).