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B) Short/long Answer questions

13. What do you understand by the term 'friction'?

The force which slows down the motion of a moving body in contact with the surface of another body, is called frictional force.

14. Give an example to illustrate the existence of force of friction.

If we roll a ball on a plain ground, it moves up to a certain distance but then stops. This happens because of existence of force of friction.

Extra questions

List the effects of friction.

The effects of friction are:

- Friction opposes motion.
- Friction causes tear and wear.
- Friction always acts in a direction opposite to the direction of motion.
- Friction produces heat.

Explain with example how friction opposes motion.

If we roll a ball on the ground, it gradually slows down and after rolling a certain distance, it ~~slows down~~ stops. This happens because the force of friction between the ball and the ground opposes the motion of the ball and brings it to stop.

Friction always acts in a direction opposite to the direction of motion? Justify by giving an example.

If we give motion to right, the friction will act on the left and if we give motion to left, the friction will act on right. Friction always acts on the opposite side of the motion.

How can you prove friction produces heat? Give an example.

By rubbing two stones together, which produced heat. This also happened due to friction. So, this proves friction produces heat.