

19/12

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Q13. What do you understand by the term friction?

ans:- Friction is the force that opposes ~~the~~ the relative motion between the two surfaces is known as friction.

Q14. Give an example to illustrate the existence of force of friction?

ans:- The ball stops after rolling up to a certain distance.

### Extra Questions

Q1. List the effects of force friction?

ans:- The effects of friction are:-

- i) Force opposes friction.
- ii) Friction always act in a direction opposite the direction of motion.
- iii) Friction produces heat.
- iv) Friction causes wear and tear.

Q2. Explain with example how friction opposes motion?

ans:- The force which slows down the motion of a moving body in contact with the surface of another body is called frictional force. For ex:- While pushing a heavy box, the force of friction opposes the motion and makes it difficult to push or pull.

Q3. 'Friction always acts in a direction opposite to the direction of motion'? Justify the statement by giving an example?

ans:- Friction always acts in a direction opposite to the direction of motion. If we move the box to the right, the friction acts towards the left and if we move the box to the left, the friction acts towards the right.

Q4. How can you prove friction produces heat? Give an example?

ans:- It is our common experience that if we rub our palms, they become warm. Similarly it is due to friction that the moving parts of a machine get warm.