

EXERCISE - B

Q15) :- What is the cause of friction?

Ans: - Friction is the force that opposes the relative motion between the two surfaces in contact with each other. The cause of friction is the interlocking of the irregular projections on the two surfaces in contact. The force of friction depends on:

(i) the smoothness (or roughness) of the surface in contact and (ii) the weight of the sliding (or rolling) body.

Q16) State two factors which directly affect the force of friction:-

Ans: - The two factors which directly affect the force of friction are:-

- (i) the smoothness of the surface
- (ii) the nature of medium (solid, liquid or gas) in which the body moves.

(i) The smoothness of the surface:

The force of friction is more between rough surfaces and less between smooth surfaces. There will be no friction between two perfectly smooth surfaces.

(ii) the nature of medium (solid, liquid or gas) in which the body moves:

A solid, liquid or gas, all exert the force of Friction on a moving body. The force of friction between a solid and another solid is more, it is less between a solid and a liquid and still less between a solid and a gas.

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