

HW

B

Q.13)

Friction is that force which opposes the relative motion between the two ~~and~~ surfaces that are in contact with each other.

14)

If we stop paddling our bicycle, it gradually slows down and ultimately it stops after travelling a certain distance. This is due to frictional force between bicycle and ground.

15)

The cause of friction is the interlocking of the irregular projections on the two surfaces in contact.

16)

Two factors which directly affect the force of friction are:

- i) The smoothness of the surface.
- ii) The presence of solid, liquid or gas around the moving body.

Extra Question

Q1

List the effects of friction.

ANS

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

Q2

Explain with example how friction opposes motion.

ANS

If we roll a ball on the ground it gradually slows down and after travelling a certain distance it stops. The reason is that the force of friction between the ball and the ground opposes the motion of the ball and bring it to stop.

Q3

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

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 ~~If~~ If we ~~read~~ rub a match stick on a rough surface. it produces fire. In this way friction produces heat.