

2-08-2024

Physics
Force

Q1

Short Long Answer questions

Q3 * What do you understand by the term friction?

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

Q4) Give an example of to illustrate the existence of force of friction

~~Ans~~ - If we stop pedalling 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~~ ground.

62) EFFECTS OF FRICTION

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

63) Explain with example how friction opposes motion.

Ans- ~~Explain~~ Example 1 - If we roll 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 brings it to stop.

(Q4) Friction always acts in a direction opposite to the direction of motion. Justify the statement by giving example.

Ans- If we move a box to the right, the ~~friction~~ friction acts towards the left and if we move the box to the left, the friction acts towards right.

(Q5) How can you prove friction produce heat? Give an example? Give an example.

Ans- The two examples to show that friction produces heat are as follows: 1) Rubbing of your both hands together to keep them warm in winter season. So, when we rub both the hands it produces heat. 2) Rubbing of sticks or stones together to produce fire.