

2.8.21

ASSIGNMENT (FORCE)

1. Define force .

Ans- Force is a push or a pull that changes or tends to change the state of rest or uniform motion of an object or changes the direction or shape of an object . It causes objects to accelerate .

2. Give an example of force as push and pull .

Ans- Push : To open a door we push it .
Pull : To ~~push~~ move a cart, it is pulled by a bull .

3. Explain force as stretch with the help of an example .

Ans- Elastic materials, and objects such as springs change shape when a ^{NU}force is exerted on them .

Ex- When a rubber string is stretched, its length increases .

4. Describe the different effects of force with appropriate examples .

Ans- ① A force can move a body originally at rest. Ex - A grass roller when pulled begins to move.

② A force can stop a moving body. Ex - A car is stopped by applying the brakes.

③ A force can make a moving body to move faster. Ex - The speed of a Cycle increases when more force is applied on the Pedal.

④ A force can slow down a moving body. Ex - The Speed of a ~~vechicle~~ vehicle is slowed down by applying brakes.

⑤ A force can change the direction of motion of a moving body. Ex - A player kicks a moving ball to change its direction of motion.

⑥ A force can change the shape or size of a body. Ex - When a rubber band is stretched it increases its length.

FORCE

B.

1) Name the term used for the push or pull.

Ans - Force is the term used for the push or pull.

2. Give one example each of a force as :-

(i) a push — to open a door, we push it.

(ii) a pull — To move a grass roller on a lawn, it is pulled.

(iii) a stretch — stretching a rubber band.

(iv) a squeeze — The shape of a sponge changes when it is squeezed.

3. Explain the meaning of the term force.

Ans - Force is a physical cause that changes or may tend to change the state of rest or the state of motion of an object.

4. What effect can a force have on a stationary body?

Ans - When force is applied on a stationary body, it begins to move.