



KALPAVRUKSHA MODEL SCHOOL

Answers of Assignments-1

Class: VIII

Sub: Physics

Date: 24.07.2021

Topic: FORCE AND FRICTION

I. Answers:

1. Define force.

ANS: **Force:** A force is a push or pulls acting on an object which changes or tends to change the state of the object.

2. List out the five effects of force. Give one example each.

ANS: 1) A force can move a stationary object.

2) A Force can stop a moving object:

3) A force can change the speed of a moving object

4) A force can change the direction of a moving object

5) A force can change the shape and size of an object.

3. Define push and pull.

ANS: A push is the force that moves an object away from something; a pull is the force of bringing an object closer.

4. What is SI unit of Force?

Ans: The SI unit of force is Newton (N).

5. Give examples of situations in which you push or pull to change the state of motion of objects.

ANS: five examples of situations in which you push change the state of motion of objects.

1) Moving a car which has stopped working.

2) Closing a door.

3) Inserting a plug into a socket.

4) Pressing a calling bell.

5) Moving a trolley in a railway station.

Five examples of situations in which you pull change the state of motion of objects.

1. Open the door.
2. When I go to bed, I use force to pull the blanket over myself.
3. Drawing a bucket of water from well.
4. When tractors and pulls are used for tilling the soil.
5. Removing a ring from our finger.
6. Opening our shoe laces
7. Dragging heavy objects with a rope.

6. Describe magnitude of Force.

- ANS: 1) If two forces acting in same direction magnitude of force increases as it is the sum of the both the forces.
- 2) If two forces acting in opposite direction magnitude of forces decreases as it is difference of the both the forces.
- 3) If the magnitude of force on an object changes the effect of the force will also change.

