

Chapter- 11

Force and Energy

WORKSHEET

I. Choose the correct answer.

1. The force that helps us to walk.

- a. Frictional force
- b. Elastic force
- c. Buoyant force
- d. Mechanical force

2. Tweezers are examples of

- a. Inclined plane
- b. Lever
- c. Wheel and axle
- d. Wedge

3. Ramp is a/an

- a. Lever
- b. Wheel and axle
- c. Wedge
- d. Inclined plane

4. Which energy is produced by the vibration of an object?

- a. Electrical energy
- b. Light energy
- c. Heat energy
- d. Sound energy

5. Which energy is used to run a fan?

- a. Electrical energy
- b. Heat energy
- c. Light energy
- d. Sound energy

II. Fill in the blanks.

1. _____ can neither be created nor destroyed.
2. The pulley used for drawing water from a well is a _____ pulley.
3. _____ force arises when a body deforms.
4. When the effort is in between the fulcrum and the load, it is a _____ lever.
5. _____ can change the shape of an object.

III. Change the underlined words to make the statement correct.

1. Buoyant force helps us to stay on the ground.
2. A wheel with a rod attached to it is known as a pulley.
3. Force is the ability to do work.
4. Solar energy is heat from within the earth.
5. The sun is the source of sound energy.

IV. Complete the series.

1. _____ : Washing machine :: Radio : Sound energy.
2. Flagpole : _____ :: Crane : Movable pulley.
3. Egg beater : Wheel and axle :: Screw jack : _____.
4. Water : _____ :: Muscles : Muscular force.
5. Fishing rod : Third-class lever : Nutcracker : _____.