

C. Answer in One Word or a Few Words

C1. Fill in the blanks.

1. If the same force is made to act on a larger area, then the pressure will _____.
2. When two or more forces act in the same direction, the resultant force is the _____ of all forces applied.
3. To stop a moving body, you apply force on it in a direction _____ to the direction of its motion.
4. The pressure of liquid column _____ with the depth of the column.
5. Weight of an object is the _____ force of the _____ acting on the object.
6. The use of skis helps a person to slide smoothly over snow because the skis _____ the area over which the weight of the person acts.
7. Construction workers use _____ force when they carry bricks.
8. The standard unit of pressure is _____.

C2. State whether the following statements are True (T) or False (F).

1. A push or pull acting on a body is called pressure. []
2. A charged body attracts another charged or uncharged body because of electrostatic force. []
3. A ball rolling along the ground comes to rest because of gravitational force. []
4. Non-contact forces need no physical contact between two objects to be effective. []
5. Liquids exert pressure in one direction only. []
6. The atmospheric pressure of a place reduces at higher altitudes. []

C3. Match the two columns.

Column A

1. Newton
2. Connector
3. Gravity
4. Atmospheric pressure
5. Pascal
6. Magnetic force

Column B

- (i) The force with which the earth attracts things
- (ii) The standard unit of pressure
- (iii) The force exerted by a magnet on an iron nail
- (iv) The standard unit of force
- (v) A piece of rope
- (vi) The pressure exerted by the weight of the air

C4. Give one word/few words for each of the following.

1. The forces in which the two interacting objects are in physical contact with each other
- ✓ 2. The force that opposes the motion of an object
3. The force produced by a machine
- ✓ 4. The forces which do not make a physical contact with the body and act through space
5. The force exerted by a charged body on another charged or uncharged body
6. The pressure exerted by the weight of the air on an object

C5. Multiple Choice Questions (MCQs): Choose the correct answer for each of the following.

1. Force applied on a moving body may
 - (a) bring it to rest.
 - (b) decrease its speed.
 - (c) increase its size.
 - (d) all of these.
2. If we apply force in the direction of motion of a body, then the body will
 - (a) stop moving.
 - (b) move with increased speed.
 - (c) move with decreased speed.
 - (d) move in a different direction.
3. A body will float on water, if the weight of the body
 - (a) exceeds the force exerted by water.
 - (b) is lesser than the force exerted by water.
 - (c) is equal to the force exerted by water.
 - (d) none of these.
4. The state of motion of a body is described by
 - (a) its speed only.
 - (b) its direction of motion only.
 - (c) its speed and direction of motion.
 - (d) none of these.

5. The pressure exerted by a liquid
(a) increases with depth.
(b) decreases with depth.
(c) does not change with depth.
(d) is different in different directions.
6. The unit of pressure has been named after
(a) Newton. (b) Einstein. (c) Darwin. (d) Pascal.
7. Gravitational force
(a) keeps us bound to the earth.
(b) acts on all objects.
(c) always attracts objects.
(d) all of them.
8. Atmospheric pressure is maximum
(a) in space. (b) on mountains. (c) on the ground. (d) at sea level.
9. Deep sea divers wear special suits to
(a) keep themselves dry.
(b) protect themselves from the increasing water pressure.
(c) maintain their body temperature.
(d) protect themselves from sea animals.