

Level-1

- 1-(c) If no force acts on a body it will either remain in rest or move in a straight line.
- 2-(a) when applied force and direction of motion is same speed of object will increase.
- 3-(c) Chemical is not type of force.
- 4-(a) Kicking action describes pushing of a body.
- 5-(a) force of friction between two bodies is a parallel of contact force.
- 6-(c) friction force is responsible for changing speed of an object.
- 7-(b) Electrostatic ~~force~~ attraction is a non contact force.
- 8-(a) friction is useful for driving a car.
- 9-(a) friction is a type of contact force.
- 10-(d) friction can be increased by making the surface rough, using dry surfaces and increasing the weight.
- 11-(b) Powder is used in carrom board for decreasing friction.
- 12-(b) Spikes are provided in the shoes of athletes to increase friction.
- 13-(d)
- 14-(c) Ball bearing is used to reduce friction in a rotating machine.

15-(a)

16-(b) Drag is known as frictional force exerted by fluids.

17-(d) Meteor burns up on entering earth's atmosphere due to excessive friction.

18-(c) friction can not be reduced to zero.

19-(b) A streamlined body reduces friction.

20-(d)

21-(a) N/m is not unit of pressure.

22-(d)

23-(d) friction is not harmful.

24-(a) Muscular force used by an archer to pull a bow.

25-(c) ~~Thrust = Newton~~. Thrust is a type of force. Its unit is Newton.

26-(c) Pressure = $\frac{\text{Force}}{\text{Area}}$

27-(b)

28- Barometer is used for measuring Atmospheric pressure.

29-(d) Thrust = Pressure \times Area.

30-(b) $P = \frac{F}{A} = \frac{16}{(2 \times 10^{-2})^2} = \frac{16}{4 \times 10^{-4}} = \frac{2500}{4} = 2500 \text{ Pa}$

Force & friction & pressure Class-7

Level-2

- 1-(c) In football, a goal keeper stops a ball. This is due to application of force by goal keeper.
- 2-(d) Tearing a paper into two pieces is an example of change of shape by applying force.
- 3-(d) A car accelerates on a horizontal road due to the force ~~ex~~ exerted by the road.
- 4- ~~moving~~ movement of piston in a cylinder and running on a track in cases where more friction is desirable.
- 5-(c) glass has comparatively a better polished and regular smooth surface. so it has least friction.
- 6-(a) The magnetic force between a magnet and a magnetic substance can cause change of state.
- 7-(b) In magnets forces is non-contact force.
- 8-(d) We use straw to drink juice from a glass. This is possible due to pressure of pressure difference.

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