

## L-11

### Force and Pressure

1) Write one word for the following sentences.

- a) A pull or a push on an object is called \_\_\_\_\_.
- b) A force exerted by a magnet \_\_\_\_\_.
- c) A force acting on a unit area of a surface \_\_\_\_\_.
- d) A pressure exerted by air \_\_\_\_\_.

2) Suppose a man is standing behind a car. Does the man exert the force on the car?

.....



3) If the members of two teams, in a game of tug-of-war, are trying to pull the rope in their respective directions and the rope does not move. Which team pulls with more force.

.....



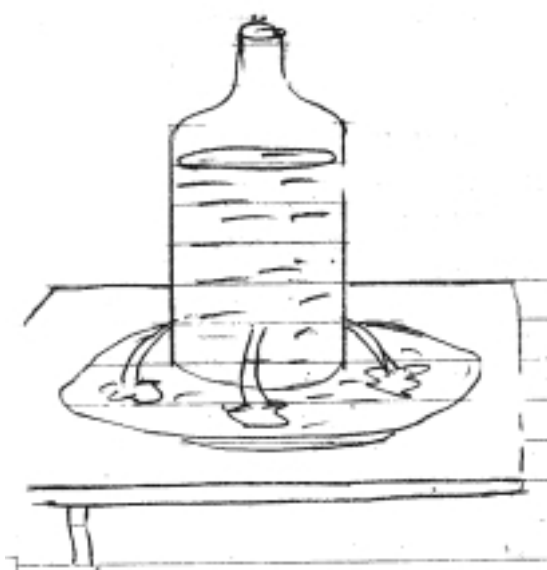
4) In the figures shown below, what conclusion can you draw about the pressure exerted by liquids.

(a)



.....

(b)



- .....
5. A force exerted by a magnet on another magnet is
- |                      |                     |
|----------------------|---------------------|
| a) contact force     | b) Frictional force |
| c) Non contact force | d) Muscular force   |
6. The weight of air in a column of the height of the atmosphere and area  $10\text{cm} \times 10\text{cm}$  is as large as
- |            |             |
|------------|-------------|
| a) 1 Kg.   | b) 10 kg.   |
| c) 100 kg. | d) 1000 kg. |
7. When air is filled in a container, air
- |                                 |                                  |
|---------------------------------|----------------------------------|
| a) Exert pressure at the bottom | B) Exert pressure on upper side. |
| c) Exert pressure on the walls  | d) Non of these                  |
8. The shoulder bags are provided with broad straps.
- |                             |                        |
|-----------------------------|------------------------|
| a) To decrease the pressure | b) To exert more force |
| c) To increase the pressure | d) None of these.      |