BCM SCHOOL BASANT AVENUE DUGRI LUDHIANA

Class -8. **Subject -Science**

Ch-1 Crop production and management

Ch-8 Force and Pressure

Assignment -1

Multiple Choice Questions (MCQs)

1. What is the primary goal of crop production?

a) To maximize profits

b) To produce high-quality crops

c) To ensure food security

d) All of the above

2. What is the purpose of irrigation in crop production?

a) To provide nutrients to crops

b) To control pests and diseases

c) To supply water to crops

d) To improve soil fertility

3. The strength of force is expressed by its
(a) weight
(b) mass
(c) magnitude
(d) longitudinal force

Assertion-Reason Questions

4. Assertion: Crop rotation helps to maintain soil fertility.

Reason: Crop rotation reduces soil erosion and increases nutrient availability.

5. Assertion: A potter makes pots of different sizes and shapes from kneaded clay.
Reason: Force may bring about change in the size or shape of an object.

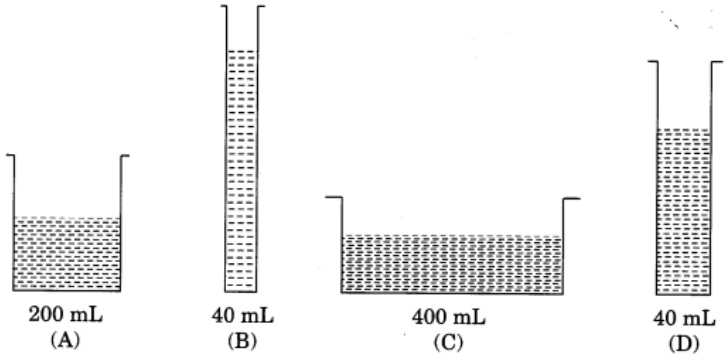
Subjective Questions

6. Bhavin wants to practice crop rotation in his field. Suggest a rabi crop and a kharif crop ,Which will replenish his field with nitrogen.

7. The elephant weighs 20,000 N stands on one foot of area 1000 cm^2. How much pressure would it exert on the ground?

8. Which activity of the farmer can promote growth of earthworms and microbes in the field?9. Why it is easier to walk on soft sand if we have flat shoes rather than shoes with sharp heels?

10. Observe the figures given above carefully.



Volume of water in each vessel is shown above. Arrange them in order of decreasing pressure at the base of each vessel. Explain the reason.

Case study

The discovery of atmospheric pressure gives a fact that air has weight. The atmospheric pressure on the earth's surface at sea level is one hundred thousand pascals .i.e.100 K Pa. The atmospheric pressure at a place decreases with an increase in altitude. The atmospheric pressure at a place is the force exerted by the weight of the air column above that place. As we go up the length of the air column above us decreases. If the pressure of the atmosphere is removed suddenly, our blood vessels and tissues will rupture due to the pressure of the blood and other fluids inside.

At the top of a mountain, some people can feel their ears “popping” due to a decrease in air pressure.

a) What is atmospheric pressure? How can we measure atmospheric pressure

b) We know that there is a huge amount of atmospheric pressure on us. But we do not

experience its effect. Why?

c) Why do some people feel their ears “popping” at the top of the mountains