

BCM SCHOOL BASANT AVENUE DUGRI LUDHIANA

Class -8. Subject -Science

Answer key

MCQ

1. D) All of the above.
2. C) to supply water to crops
3. C) magnitude

Assertion reason

4. A) assertion and reason both are correct and reason is the correct explanation of assertion.
5. A) assertion and reason both are correct and reason is the correct explanation of assertion.

1. For Bhavin to practice crop rotation and replenish his field with nitrogen, he can plant wheat (rabi crop) and soybean (kharif crop). Soybean, a legume, has the ability to fix atmospheric nitrogen in the soil, making it beneficial for future crops like wheat.

Answer 7.

Given. Force=20000 N. , Area=1000cm square

Area= $1000/100 \times 100 = 1/10$ square metre

Pressure= Force/ Area

$20000/1/10$

20000×10

2.0×10^5 pascal

8.Explanation: When a farmer plows the soil, they aerate it by breaking up the compacted earth, creating more space for earthworms and microbes to thrive. The loose soil also provides easier access to food and oxygen for these organisms.

9. Because flat shoes distribute the pressure of our weight evenly across the soft sand, making it easier to sink in and walk. Sharp heels, on the other hand, concentrate the pressure on a small area, causing the sand to collapse and making it difficult to walk steadily.

Answer 10.Pressure of a liquid column depends upon the height of the liquid column and not on volume of the liquid. Decreasing order of pressure at the base of each vessel is $B > D > A > C$.

Answer 11.Case study

a)The pressure exerted by the air around us is known as Atmospheric pressure.

b) The pressure of the air inside our body is the same as that of the pressure outside.

Therefore, we do not experience its effect.

c) Some people feel their ear-popping at the top of the mountain due to the decrease in the air pressure. The ears pop to balance the difference in pressures inside and outside of the body.

