

11. match the following columns:-

A

B

- |                                 |  |
|---------------------------------|--|
| (a) A molecule is composed of   | does not exist free in nature.                                       |
| (b) Ice, water and water vapour | can vibrate only up to about $10^{-10}$ m from their mean positions. |
| (c) An atom                     | atoms  |
| (d) Gases                       | are the three states of water occupying space.                       |
| (e) The molecules of a solid    |  |

B. Short / long answer questions:-

1. Define ~~of~~ matter. what is ~~its~~ its composition?

Ans- matter is something containing weight and ~~has~~ mass.

It's composition are air, water, sky, fire. 1

2. Name the three states of matter.

Ans - The ~~the~~ ~~three~~ states of matter are = "solid, liquid, gas."

3. What is a molecule?

Ans - A molecule is formed when two or more atoms of the same element or of different elements unit. It is the smallest unit of matter that can take part in a chemical reaction.

4. Mention one example each of a monatomic and a diatomic molecule.

Ans - monatomic = neon  
diatomic = oxygen molecule.

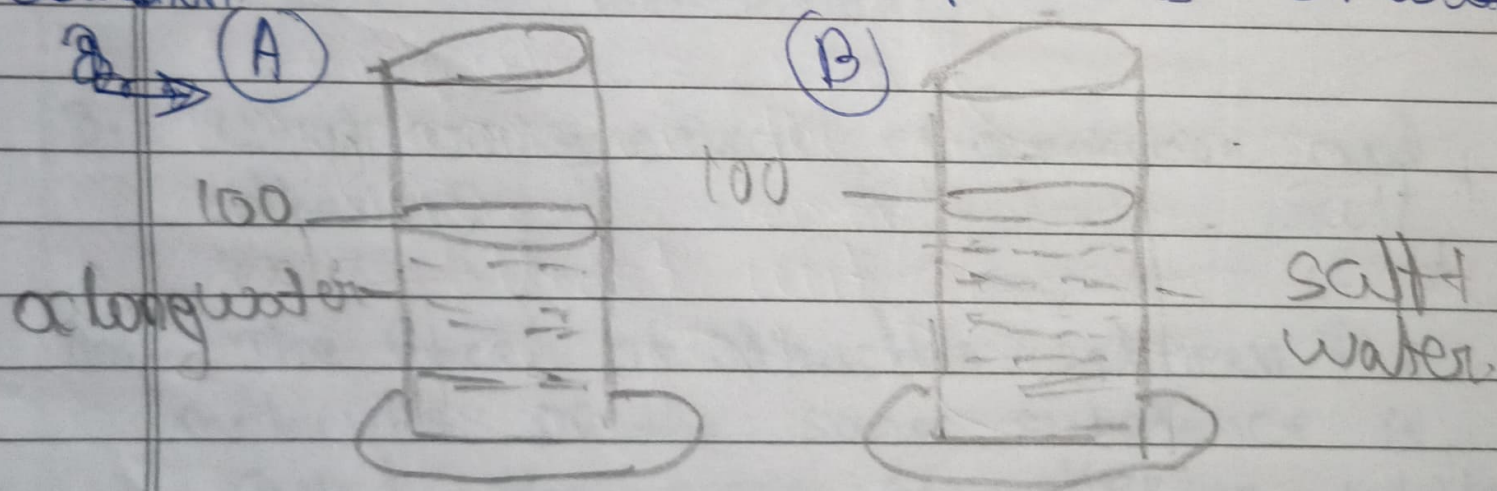
5. What do you mean by inter molecular spacing?

Ans - The spacing between molecules of matter is called inter-molecular space.

5. What do you mean by inter-molecular spacing?

Ans.

The particles of salt occupy the ~~space~~ space between the particles of water.



Take 100ml of water in a measuring cylinder. Add 20g of salt in water gently and stir it well so as to dissolve the salt well in water. It is noticed that the ~~the~~ level of water does not change. It shows that the