

4. 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 occupy 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.

2. name the ~~two~~ ^{three} states of matter.

Ans - The ~~two~~ ^{three} states of matter are = "solid, liquid, gas."

3. what is a molecules?

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.

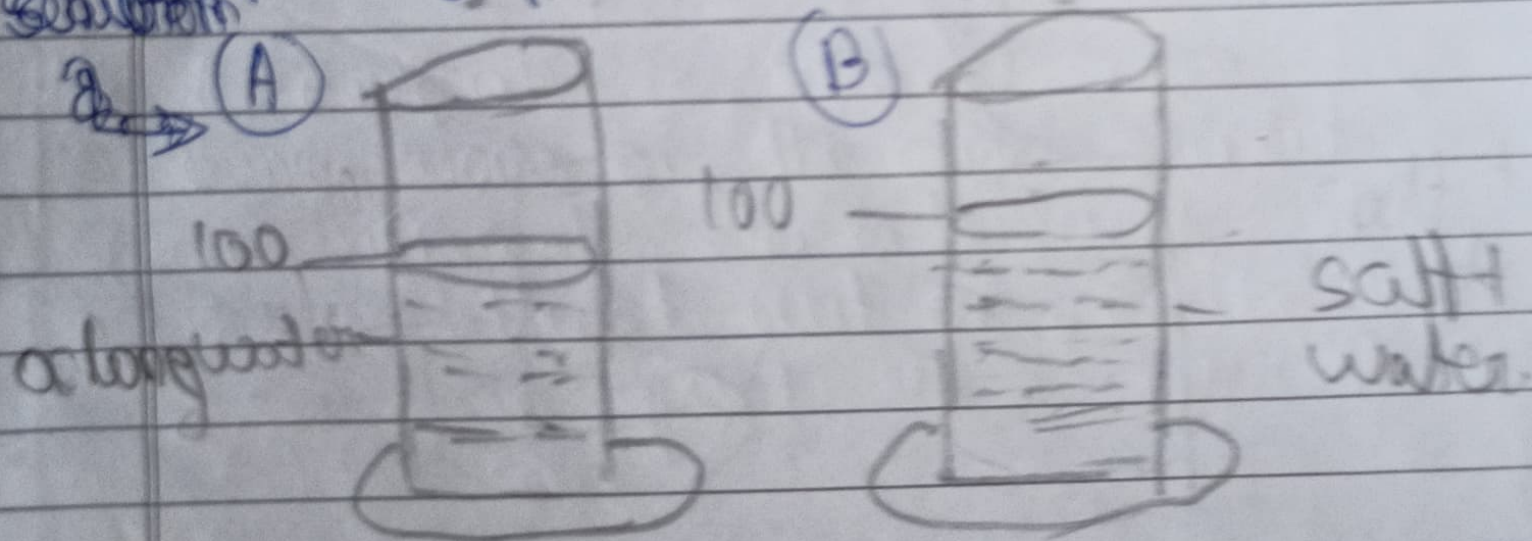
Ans - monatomic = neon.
diatomic = oxygen molecule.

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 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 level of water does not change. It shows that the