

Exercise - II

1. Name the smallest particle from which matter is made up of.

Ans- The smallest particle from which matter is made up of is atoms.

8. Give reasons:

a) Liquids and gases flow and solids do not because

~~the molecule~~ intermolecular force (cohesive force)

is weaker and intermolecular space is more

which allows them to move freely, but the cohesive

force in solids is more and ~~the~~ intermolecular

space is very less.

- b) A gas fills up the space available to it because its molecules are far apart each other and have the weakest intermolecular force of attraction.
- c) The odour of scent spreads in a room, because the molecules of scent spread and diffuse or mix with other air molecules in the surroundings.
- d) We can walk through air because ~~our~~ ~~body offers resistance which acts opposite to the direction of air and helps us to walk through air~~ or the particles of air have large gaps between them.
- e) Liquids have a definite volume because

there are a definite number of molecules in it but it does not have a definite shape because the molecules have weaker intermolecular force is weak and intermolecular space is larger.

f) The sugar molecules take the space between the water molecules.

g) The gas takes up all the space available to it, so, it fills up another jar also.

h) As, the molecules of ink drop ~~fuses~~ diffuses with water, so, water becomes red.

9. d) Cohesive force - ~~Cohesive force~~ The intermolecular force between particles of the

same substance is called cohesive force.

b) diffusion: The intermixing of particles of one kind with another is called diffusion.

c) Brownian movement: The zig-zag path of particles suspended in a ~~the~~ medium is called Brownian movement.

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