

1. Ans- Gases can be liquefied by applying pressure and lowering temperature.

2. Ans- Sublimation is the transition of a substance directly from the solid to the gas state, without passing through the liquid state. Ex- Dry ice.

3. Ans- a) Ans- The molecules of gases and liquids are present far apart from each other.

b) Ans- When we invert the bottle and blow air into the bottle through the side opening. It creates high

h pressure inside the bottles
and the egg is kicked out of the
bottle.

c) Ans- Diffusion because of the
intermolecular force of attraction
as the gases flow more or faster
than liquid.

Scent fumes (molecules) being gases
fill the spaces between air
molecules and the molecules of air
fill the spaces between scent mole-
cules due to diffusion, fumes spread
into a room.

d) Ans - We can walk through the air because the molecules in the air are loosely packed with one another.

e) Ans - The \ominus molecules of the liquid are loosely packed and the intermolecular force of attraction is small but a number of molecules in it remains the same.

f) Ans - When a teaspoon of sugar is added to half a glass of water and stirred, the water level in the glass remains unchanged because the sugar particles are adjusted between the water mole-

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cules as intermolecular gaps are more in liquids.

g) Ans- This shows that gases can fill up all the space that they get, and they have neither a fixed shape nor a fixed volume. They have no free surfaces, either.

h) Ans- If we put a drop of red ink in a glass of water, its particles diffuse with particles of water slowly but continuously and the water turns red.