Deposition -

- It is a Process when a vapour gas on cooling changes directly into a solid without changing into liquid.

B. Short Answere Questions:

1A) The Matter is something which occupies space, has mass and can be perceived by senses.
- Matter is composed of five tatvas namely Akash, Vayu, Tejas, Jal and Prithvi.

2A) i) They are very small in size.

ii) They have spaces between them.

iii) They attract each other.

3A) The space between any molecules is known as Inter-Molecular space.
- The molecules in solid are tightly Packed (very s...
- The intermolecular forces are less strong (liquid).
- The intermolecular forces are weak in (gas).

4. The force of attraction in Molecules is known as Inter-Molecular force.

- Solid has strongest intermolecular force.
- Liquid has moderate intermolecular force.
- Gas has less intermolecular force.

5. a) Correct.

b) Correct

c) False

d) False

6. c) Solid = The Molecules in a solid are in fixed Positions and due to the strong intere-molecular forces, they don't leave their positions, so a solid has definite shape and a definite size.

Fig. 1.1 Brownian motion

... water in the cylinder

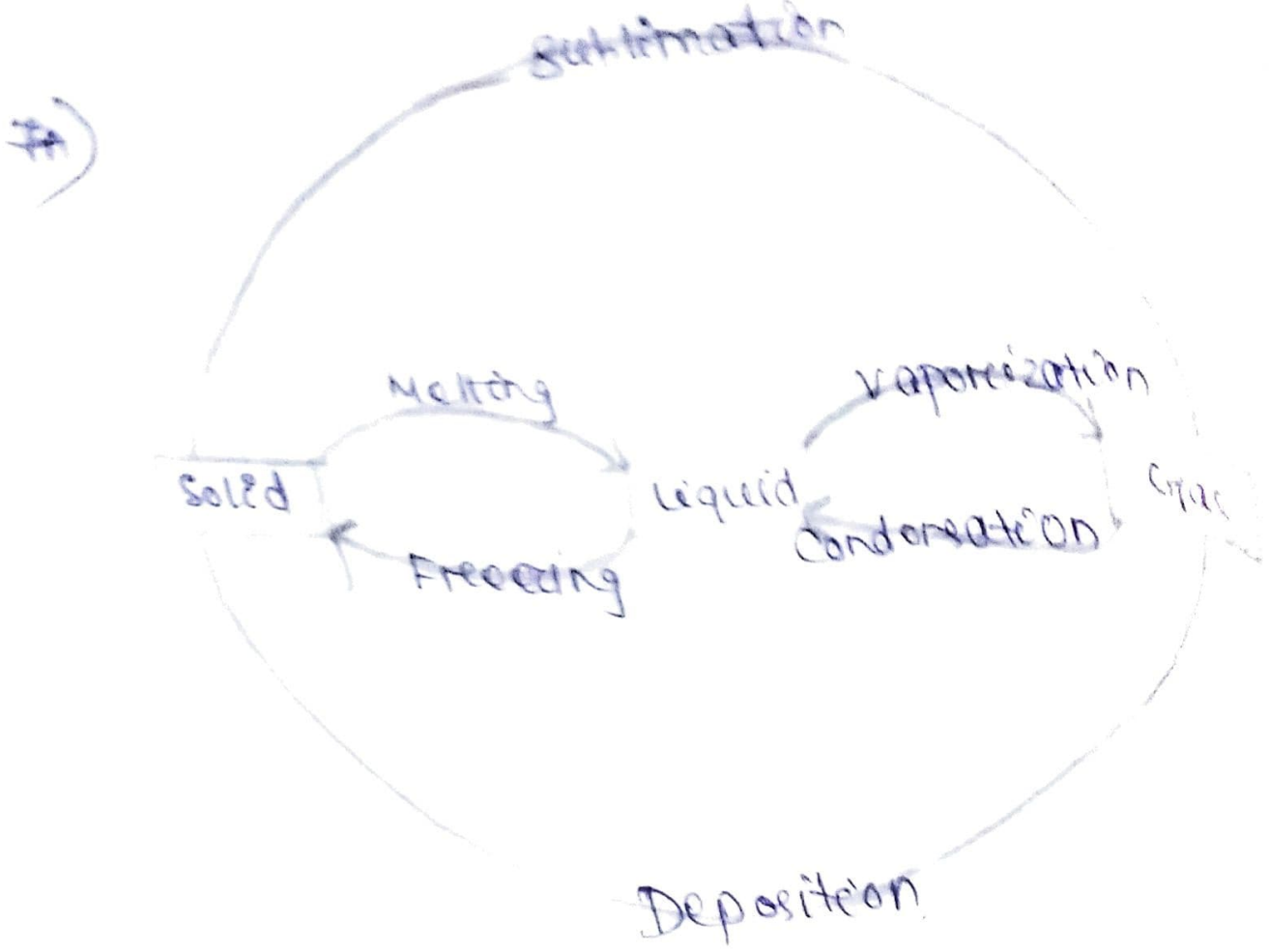
ii) Liquids · The liquid molecules can slide over one another due, to which a liquid can flow. The inter molecular forces, although weak, are sufficient to keep the molecules within the boundary of the vessels. So, liquid don't have definite shape. But, have definite volume.

iii) Gas · Gas molecules are very free. Because, of their weak inter molecular forces. This is why, the Gases have neither a definite shape nor definite volume.

4A) The process of change from one state to another state either by absorption or rejection of heat at a consistent temp is called change of state.

5A)

	Melting	Boiling
i)	The change from the solid state to liquid state on heating at a fixed temp is melting.	When a solid changes into ~~liquid~~ vapour at a fixed temp is called as Boiling.
ii)	eg · Ice to water at 0°c	Eg · Boiling water to vapour.


Sublimation
Melting
Vaporization
Solid
Liquid
Gas
Condensation
Freezing
Deposition

Date
Page

Q4-c) Condensation - The change of vapours on cooling at a fixed temp to liquid it is called condensation

Eg - watere vapoures at 100°c aree cooled they change into watere.

d) Sublimation. The Prerose of change of solid directly into vapour on heating is called as sublimation.

Eg - Naphthalene balle when heated forems to vapour.

10m → The change from solid state to liquid state on heating at fixed temp is called Melting.

→ The temp at which a solid changes into liquid without further increase in temp is called Mealting Point of solid.

11A → Insert a thermometore in solid wose, so, that bulb of thermometore in hot bath in which contained in the clamp the test tube along with Thermometore in hot bath in wate Contained in the Beakore and set up the apparetus as shown. This heat is absorbe at Constant temp till whole was is melte

12 i) Vaporisation → The change from liquid state to Gaseous state on heating at a constant temp. by absorption of heat is called Vaporisation.

ii) Boiling Point → The temp. at which a liquid changes into vapour without further increase in temp is called Boiling Point.

13) a) We Conclude that Ice melts at 0°C.

15) Take a Beakere Pour water in it Place the Beakere on a wire Gauze placed over a tripod stand clamp a thermometer in vertical stand and insert it into water Heat the water.

→ We will see that temp of water rises continously till the water starts Boiling at 100°C. Once the water starts boiling, its temperature doesn't raise any further, although the heat is still being supplied Now the Bubbles formed through the water are seen. At this temp water begins to Boil and Changes into steam

16. a) Melting Point of Ice is 0°C

b) Boiling point of Water is 100°C

17. Evaporation is a Process in which liquid changes to vapour ~~at~~ all temp. ~~from~~ the surface of a liquid.

18. i) The amount of exposed ~~Area~~.

ii) The flow of ~~Air~~ above liquid.

iii) The temp. of liquid.

19. wet clothes would dry on a warm dry day because, on a ~~Cold~~ humid day the ~~Air~~ would already carrey water so, ~~At~~ that time Evaporation will take Place ~~in~~ very less Amount.

- on, warm dry day the evaporation will take Place quicker ~~than~~ because, the ~~Air~~ wouldn't have absorbed water so, Evaporation will take Place Quickere.

Date
Page

20. Yes, Because, The rate of Evaporation occures faster if the exposed area is wider than a Bottle as the Dish Bail has more exposed area compared to Bottle that's why water in dish evaporates faster

21. Volatile liquids such as alchol and spirit are stored in thightly closed Bottles so, that the rate of Evaporation will occure lesser.

We Conclude that the Boiling Point of water is always 100°C as it doesn't increase from the fig

23. The reason for cooling in Evaporation is that when a liquid changes into vapour it requires heat This heat is supplied by the surroundings of liquid. Thus, resulting in fall in temp in surrounding.

24. If a little alcohol is poured on the palm, it gives a soothing sensation. If some alcohol is poured on cotton wrapped around the bulb of a thermometer. The reading of the bulb of the thermometer falls. This shows that cooling is produced when a liquid evaporates.

25) In summer, water gets cooled in an earthen pot.

→ Keeping wet clothes on forehead for high fever.

26) Water gets cooled in earthern pots because, water seeps out on surface through the pores in the pot and it evaporates. The heat required for evaporation is taken from water inside pots therefore it become cooler.

27) Doctors advice to put strips of wet cloth on the forehead of a patient having high fever. The reason is that water of strips evaporates. During,

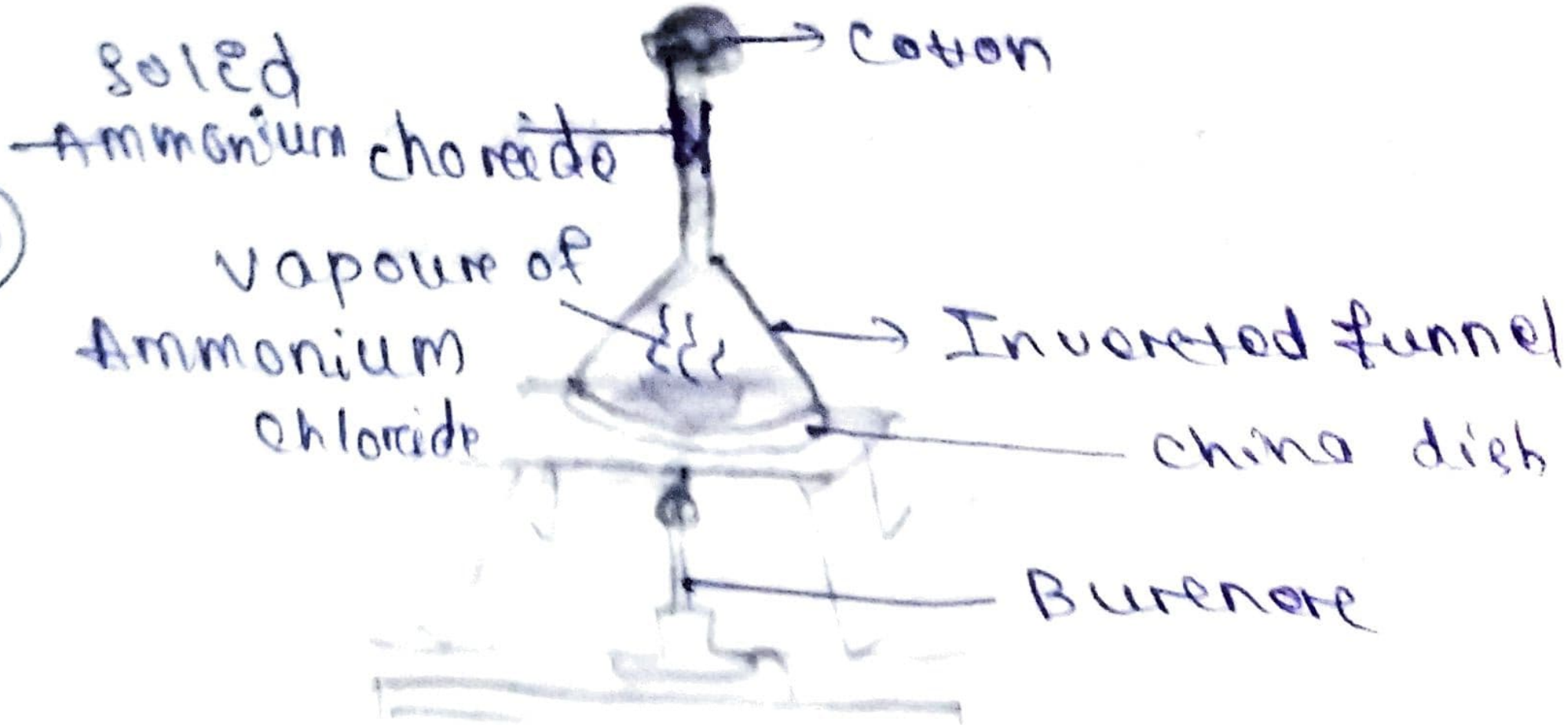
evaporation, water takes heat from the Body of patient and thus, the temp of his body decreases.

28. Sublimation is Process by which a solid when heated, directly changes into its Vapour without changing into liquid.
eg- Naphthalen balls when heated turns to vapours.

29. The size of Naphthalene balls decrease because, ~~the Process~~ it is Application of Sublimation, so, sublimation occurs faster in Naphthalene balls

30. Take Camphore or Ammonium chloride Powder it, keep the powders in china dish, Now cover the dish with inverted funnel. Then close the end of funnel with cotton. Now heat it with Burner, we will see that the Vapours of ~~Ammonium~~ chloride occurs in funnel ~~which~~. it cools down and change into Ammonium chloride which gets deposited.

30)


Solid
Ammonium chloride
Cotton
Vapour of
Ammonium
chloride
Inverted funnel
China dish
Burner