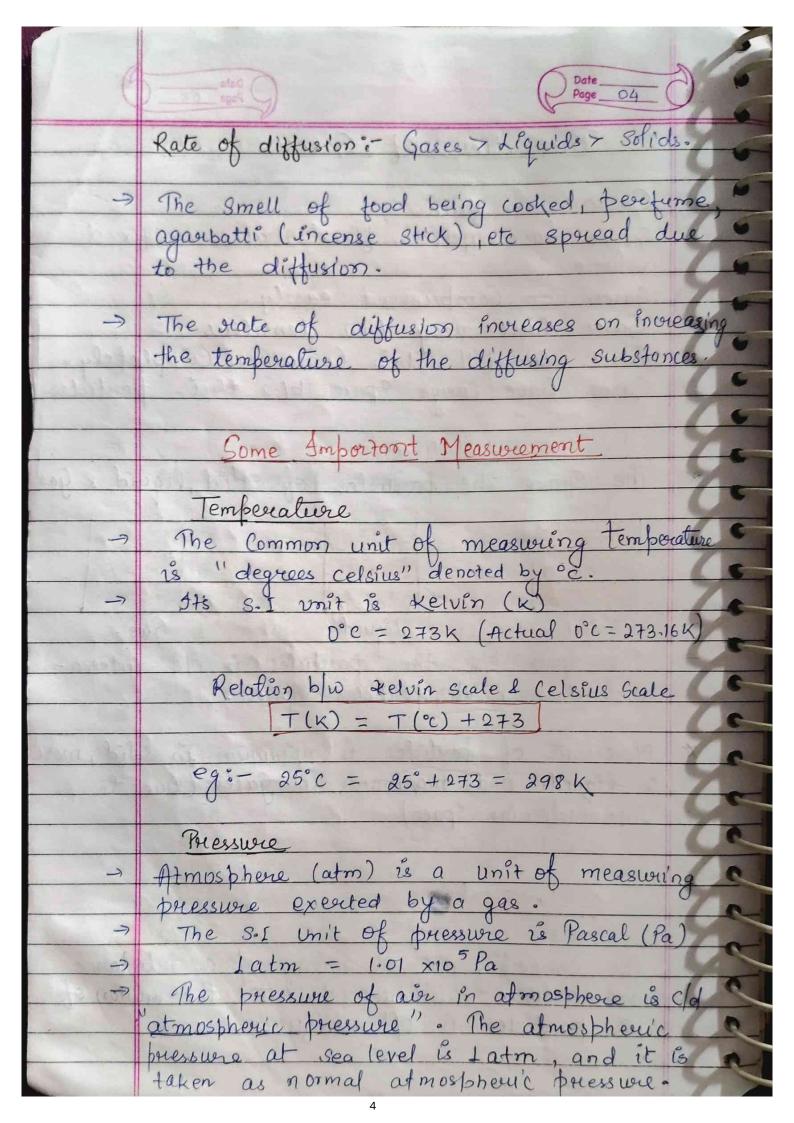
	MATTER IN OUR SURROUNDING
2	Matter: - Any things that Occupy Space and have mass is known as matter
73	Early Indian philosophere Classified matter in the form of five basic elements - the "Panch Tatva" - air, earth, fine, Sky and
	water. According to them everything, living or non-living, was made up of these zive basic elements.
	Physical Nature of Matter Matter is made out of tiny particles.
))	Matter is made oup of tiny particles. These farificles is known as atom
· •	Characteristics of Particles of Matter. Particles of Matter have space 6/w
3	Paulicles of matter are Continuously moving
• → • • • • • • • • • • • • • • • • • •	The moving particles having Kinetic energy which increases with increase in temperature
, #	Particles of matter attract each other. The force of attraction between the particle of matter is known as intera-
9	molecular or interaparticle 8 fonce. Interamolecular force :- Soli'd 7 liquid > Gas

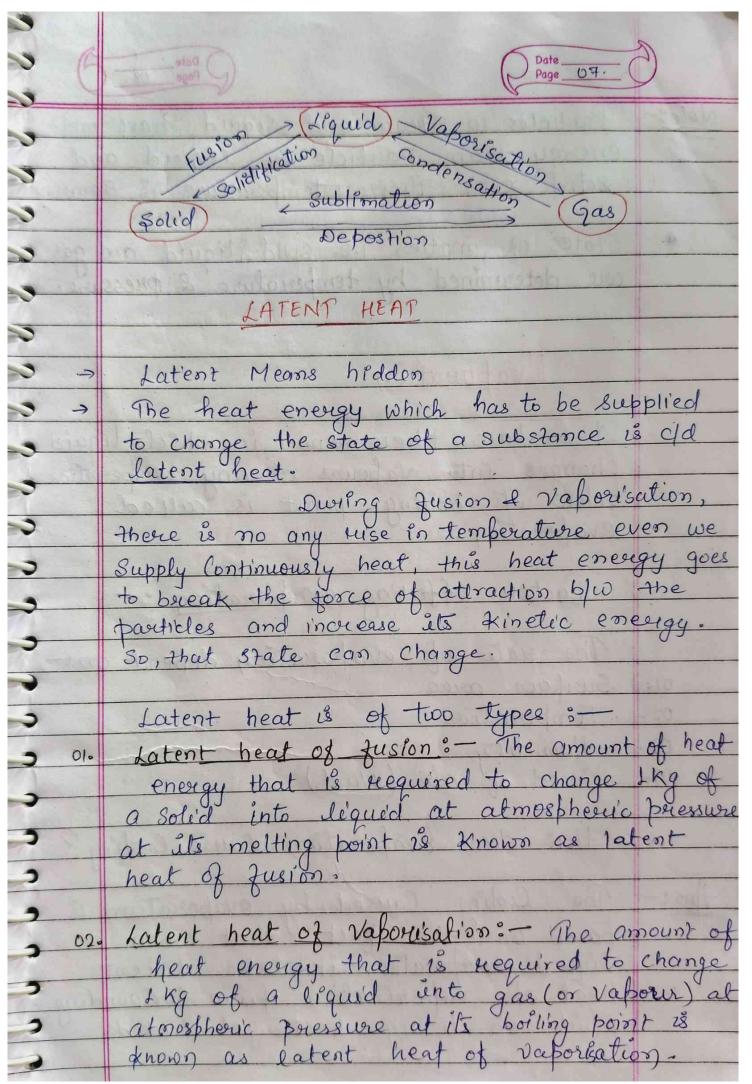
(Date Page 02
400	Brownian Motion: - The zig-zag motion of the 6mall particles Suspend in a liquid (or gas) is old brownian motion.
900	CLASSIFICATION OF MATTER
	Matter can be classified into three group, on the basis of their physical properties: Solid 02. Liquid 03. Gas
01-	Solid 02. Liquid 03. Gas Proporties of solid:
→	Solid are reigid
ラ ラ	Solid have a fixed Shape & a fixed Volume Solid Can't Compressed much have high density
7	Solid do not fill their Container Completely Solid have very little Space blu their particles
A GHANN	Properties of Léquid
)	Léquid are Huid Léquid have not fixed Shape but fixed Volume
>	Liquid can Compuessed little. Liquid have intermediate density
7	Liquid do not zill their Container
->	Solid have moderate space b/w their
1 300 ×	To report of the later to the second of the later to the

-		
		Date
		Page 03
		Properties of Gases
	->	Gases are Huid
1	7	gases have neither tixed shape nor fixed
3		volume.
1	-5	Gases Can Compressed easily.
3	7	Gases have very low densities
3	7	Gases Con fill their Container Completely.
		Gases have large space b/w their particles
		The State of the State of Conference of the State of the
	*	The Space the particles of solid, liquid & Gas
		The opace to space the state of
>		000000000000000000000000000000000000000
>		00000000 0000 0000
•		000000000000000000000000000000000000000
		Bolid Liquid Gas.
	->	The space b/w the particles is c/d intera-
		molecular or interaparticles Space.
<u> </u>		al t 1 1 della company o estal maso
-	X	Movements of particles is significant in soria, more
•	1	Movements of particles is minimum in solid, more in liquids and maximum in gases. (Due to interamofecular space)
9		interamore ecuar space)
1		The State of the State Control of the State
		DIFFUSION
	16	THE RESERVE OF THE PARTY OF THE
,		The Spreading out or mixing of a substance
•		The Spreading out or mixing of a substance with another substance due to the motion of its particles is c/d diffusion.
)		its particles is c/d diffusion.
		The state of the s



Con .		
D	(ator O Date Page 05
1		
Po		CHANGE OF STATE OF MATTER
12	Aue	:- How can change in the physical State of
10	CC.	matter?
10	7	10 11 12 1
10		matter in two ways:
10	01.	By Changing the temperature, and By Changing the pressure.
1	02.	By Changing the pressure.
3		OL BY Changing the Temporature
		01. By Changing the Temperature
	1>	Melting.
	-	Process in which solid Convert into liquid
13		on heating. Also known as Jusion
13	->	The temperature at which a solid substances
D		melts and Changes into a liquid at
10		almospheric pressure, le c/d metring points
>		atmospheric pressure, is c/d melting point. eg:- melting, of ice is o'c (or 273k)
10	ĩi >	Boiling
-	->	Process in which liquid convert into gas on heating. Also known as vaporisation.
		heating. Also known as vaporisation.
1,	7	The temperature at which a lique'd substance
		bolls and changes into a gas at atmospheric
		pressure, is cld boiling point.
		eg:- boiling point of water is 100°c (or 3734) n n alcohol is 78°c.
,		
,	111	Condensation
,		
,		The process of Changing a gas (or Vapowi) to a liquid by Cooling, is cld Condensation.

iv>	Freezing The bunces of changing a lique'd
fr. slud	into a solid by cooling, is called
1	freezing or solidifications
	Golid Heat > Liquid Heat Gas
	02. By changing the Removalure
7	Gases Can be liquefied by Applying pressure
1 7	The applied pressure and decrease the
	Space blue the particles & lowering temperalure decrease kinetic energy which
Markoth	Cause to change of gas l'ento solid.
	eg: - Solid of Co2 (Dry ice), lique'd
	ammonia 12PG, etc.
00	SUBLIMATION
->	The Changing of Solid directly into gas (or vapor) on heating and of vapour into solid on Cooling, is known as
TA STAND AND	(or vapor) on heating and of vapour
	Sublimation
7 115	Solid Heating: Vapowe (or gas)
	Cooling
7	eg: - Ammonium chloride, Jodine,
we fev	eg: - Ammonium chloride, Jodine, Camphor, Naphthalene and Anthogoene
->	



Note:	Particles en Steam and liquid have more energy than Particle en liquid and solid even Their temperature is some.
	energy than particle in liquid and
	eded our Their temporature is Same.
_	contact and matter in colid liquid and gas
	57aics of maller temperature & pressure.
	States of matter i.e. solid, liquid and gas are determined by temperature & pressure.
	TO LOS
	Evaponation
- haribai	A surface phenomenon in which liquid changes into Vabours at any temperature below its boiling point is called
1016	A surface phenomenon to any temperature
	changes into vapours at any
C. no. No.	below its boiling point is const
San Acces	evaporation.
	O . a Challes ash broughting :-
- self-	Factous affecting evaponation:
	The nate of evaporation depends on:
010	Surface area
02-	Temperature
03 -	Speed of air (Wind)
040	Speed of our (Wind)
and he	11 de la la la firm Cause Cordina?
	How does Evaporation Cause Cooling?
1	The Cooling Coursed he evaluation
TIMS :	The Cooling Caused by evaporation is based on the fact that when a
No. of the last	liquid evaporates, it takes latent
	heat et Nahonization from en
	heat of vaporization from syrrounding which on losing heat get cooled.
	de Cooled.

Queso	Summer? - Why do we see water droplets on the outer swiface of a glass containing ice - cold?
,	
,	