

By- Amit Mahajan Sir

hysics Wallat



Topics to be covered





Introduction of Equilibrium



Physical equilibrium, Chemical equilibrium



Chemical Equilibrium Characteristics.



Home work from modules



Irreversible Reaction

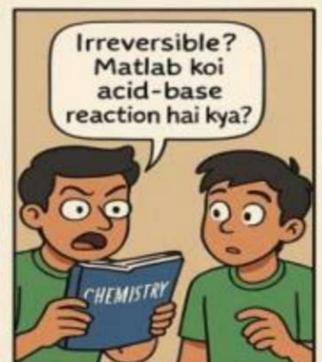
ons in which Peroduct Can't give. back reactants:

Na (R(aq.) + Ag Noz(aq.)) Ag(1(8)) + Na Noz(s)
b.p.t.

HU (ag.) + NaOH(agr) - 3 Nocl (ag) + tools)













Reversible Reaction

on's in which product can combine.

to give meactants

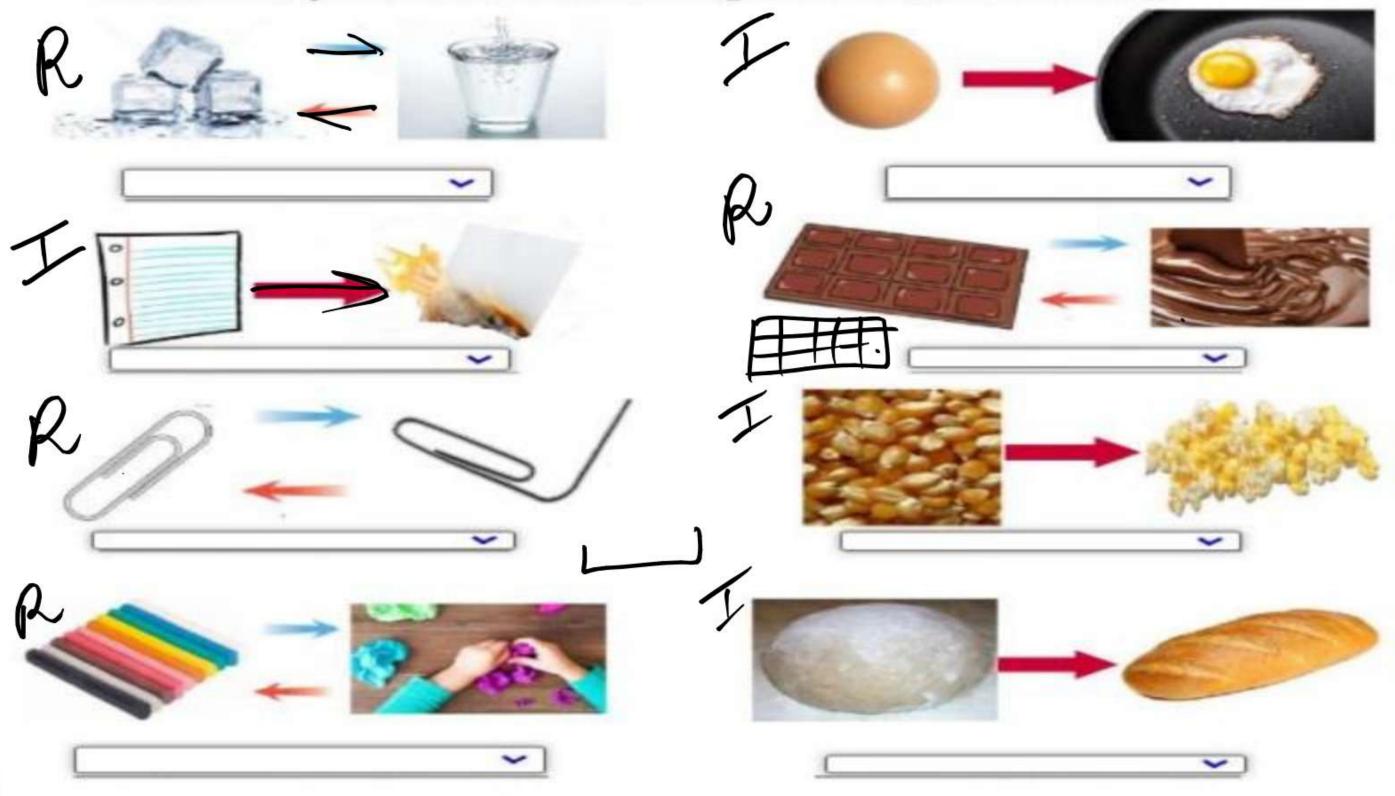


Cay Concept -> Reversible on.













Equilibrium



eq. is state when nate of forward on = nate of backword on.

T=0°C=273K. Hgo(8) = Hgo(1)

P=latm.

nt of melting of ice = nt of

Bo(a)

1 sec=203 gice meet.

1 sec=303 gice meet.

1 sec=303 gice meet.

50 students, le the markets

18 tudents

(An) (50)



Physical Equilibrium

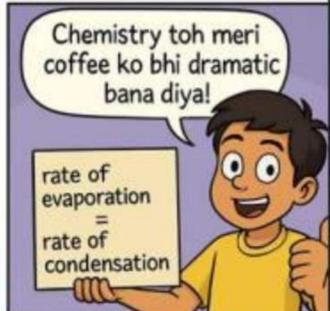
Types of Phy. eq.







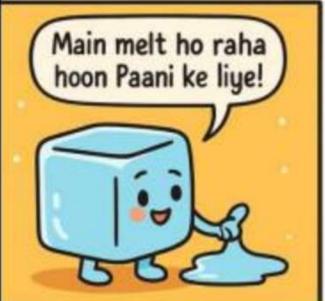






Solid-Liquid Equilibrium





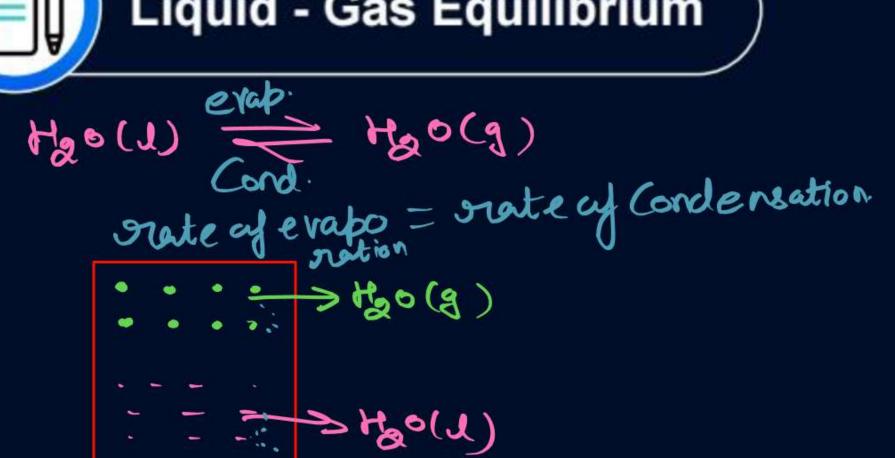








Liquid - Gas Equilibrium















Solid-Gas Equilibrium

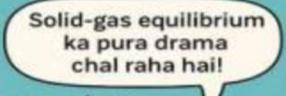
Subline solids > NHyU(8), Tg(8) Comphon(s), Naptholene (s)) (og (s) Sublimation

1(0g(8) = (0g(8) deposition.

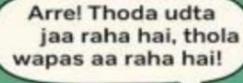
enate of sublimation.

= nate of deposition



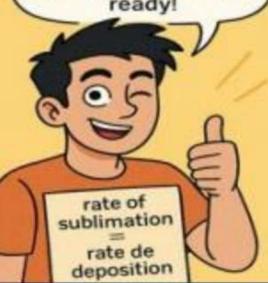






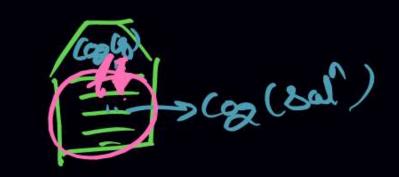


Bas balance ho gaya - ab date ke liye ready!



(Gras-sol eq. :

Cog(g) == (20(sol))



Soda bottle open -> (02(9) Comes out due to loss in pressure



Chemical Equilibrium



as t T ort forward of I ort of backward on T at eq.

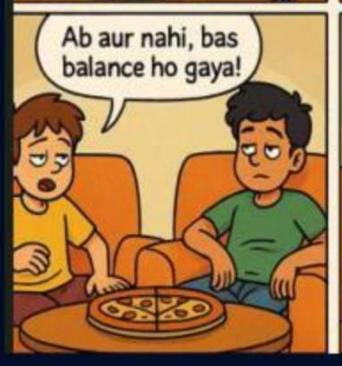
ps to steep.

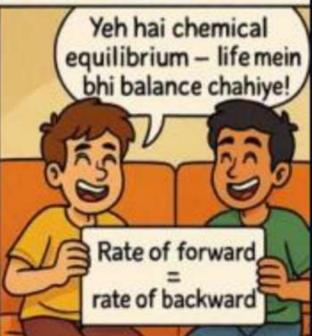
The browning of points of the tree of the browning of the tree of the production of the tree of

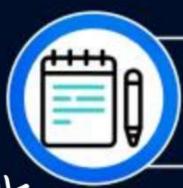






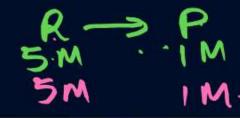






Characteristics of Equilibrium

t=34m





- MIT (1) at eq. all observable brob. b'com Constant.

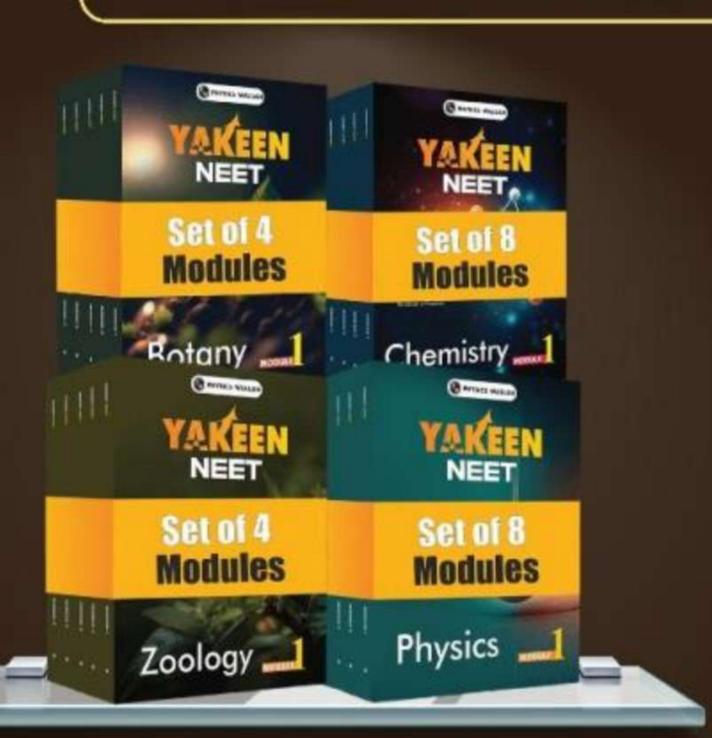
 fan ex: P, V, T, n etc.
 - 2) Catalyst has no effect on eq.
 - 3) eq. is dynamic & not static.
 - 4 at eq. 1600
 - 3) eq. Can be achieved from either side.
 - 6) if at eq. any observable perop. is Changed eq. is disturbed.



142(8) +172(9) = 2HI(9) 19(0) 172(9) 19(0) 172(9)



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