

(6.20)	Name - Ayush Jain
06/04/2021	Engineering Chemistry MAEER'S MIT
	Phase Rule - Tutorial 1
1)	State Gibb's Phase Rule
Ans	Desired phase rule states that in every homogeneous system in equilibrium, the sum of the numbers of phoses and degree of freedom is greater than the number of components by 2. 2) This is mathematically expressed as PHF=C+2 ax F=C-P+2 where P is the number of phases present in equilibrium C is the number of components for the system and F is the number of degree of freedom for the equilibrium. 3) This rule is valid for any system at equilibrium at definite temperature and pressure provided the equilibrium between any number of phoses is not influenced by gravity, by electrical as magnetic forces as by surface action; and is only influenced by temperature 1 pressure and concenteration.



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2)	Define phase and give three examples to explain it.
Ans	1) A proce is defined as any homogeneous, physically
165 100	distinct, mechanically separable postion of the system
No.	which is seperated from other ports of the system
WEST STREET	by definite boundary surfaces
	2) Examples:
	(i) In a freezing water system, ice, liquid water
	and water vapour constitute three phases. Each of
	the phases is distinct, homogeneous and mechanically
	seberaple.
	Ice(s) Water(s) \water water vapour(g)
	(2) A gaseous mixture, being thoroughly miscible in
	all proportions, constitutes one phase only. Thus, a
	wixture of us and Hs forms one bhose only.
	(3) Two miscible liquids form one liquid phase only.
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