

## Equilibria

Sr	Questions	Answers Choice
		A. Speeds up gradually B. Proceeds from left to right
1	A reverse reaction is one that	C. In which reactants react to form products     D. Slow down gradually
2	When the rate of the forward reaction takes place at the rate of reverse reaction the composition of the reaction mixgure remains consant. It is called.	A. Chemical Equilibrium     B. Static equilirbirum     C. Both a and b     D. None of the above
		A. The reaction will be practiclly irreversible     B. The equilibrium point will reach very soon
3	What will happen if the rates of forward and reverse reactions are very high	C. The equilibiurm point will reach very late D. The reaction will not attain the state of dynamic equilibrium
4	An Inorganic chemistry places one mle of PCI5 in container A and one mole of each CI2 and PCI3 in container B. Both the containers were sealed and heated to the same temperture to reach the stte of equilibrium Guess about the composition of mixtures in both the containers.	A. Both the containers wil have zero concentration of its reactants. B. Both the containers wil hae the same composition of mixtures C. Container A will have more
		concentraion of PCl3 than B. D. Container A will have less concentraion of PCl3 than B.
5	The reaction in which the products can recombine to formreactants are called.	A. Reversible Reaction B. Irreversible reactions C. Decomposition reactions D. Addition reactions
6	The colour of anhydrous copper (II)sulphate solid is	A. Pink B. Black C. White D. Blue
7	Whoih is true about the equilibrium state?	A. The forard reaction stops B. Both forward and reverse reactions stop C. Both foward and reverse reactions continue at the same rate D. The reverse reaction stops
_	If reversibe reaction useful for preparing compounds on large scale.	A. Yes B. No C. They are useful only when
8		equilirbium lies far to the left side D. They are useful only when equilibrium lies far to the right side
9	The colour of anhydrous cobalt(II) cholride solid	A. White B. Black C. Pink D. Blue
10	Which of the following does not happpen, when a system is at equilibrium state.	A. Reaction continues to occur in both the directions B. Concentration of reactants and products stop changig C. Forward and reverse reactions stop D. Forward and reverse rates become equal
11	How much heat absorbed when NH3decomposed into N2 and H2?	A. 90.4 kJ/mol B. 92.4 kJ/mol C. 94.2 kJ/mol D. 95.2 kJ/mol
12	Predict which components of the amosphere react in the presence of lightening.	A. N2 and H2O B. O2 and H2O C. N2 and O2

		D. CO2 and O2
13	The colour of hydrated cobalt(II) chloride solid is	A. White B. Black C. Blue D. Pink
14	Which compound is used a thinner is paint industry?	A. H2O B. C2H3OH C. CH3COOC2H5 D. CH3COOH
15	CaO or lime is used extensive in steel, glass and paper industries. It is produced inan exothermic reversitble reaction by the decompositon of lie . Choose the conditions to produce maximum amount of lime.	A. Heating at high temperatur ein an open vessel B. Heating at high temperatur ein a closed vessel C. Cooling it in a closed vessel D. Colling it in an open vessel
16	Which type of reactions speed up gradully?	A. Decomposition reaction B. Forward reaction C. Reverse reactions D. Irreversibel reactions
17	In the beginning the rate of reverse reaction is.	A. Slow B. very fast C. Moderate D. Negligible
18	At what temperature, rate of ammonia formation and decomposition is the highest.	A. 200 <sup>o</sup> C B. 300 <sup> o</sup> C C. 400 <sup>o</sup> C D. 500 <sup>o</sup> C
19	A complete reaction is in which	A. Only 10% reactants covert into products B. All the reactants covrt into products C. All the reactants do no covrt into products D. Half reactants covert into produts
20	What will hapen to the concentrations of the prodcut if a reversible reaction at eqiulibrium is not distrubed.	A. They will keepon increasing     B. They will keep on decreasing     C. They will remain constant     D. They willremain constant for some time and then start decreasing