

NAT I Medical Chemistry

| Sr | Questions | Answers Choice |
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| 1 | When pressure is applied to the equilibrium system Ice Water Which of the following phenomenon will happen? | A. More ice will be formed B. Water will evaporate C. More water will be formed D. Equilibrium will not be formed |
| 2 | For the reaction $2A(g) + B(g) \ 3C(g) + D(g)$ two moles each of A and B were taken into a flask The following must always be true when the system attained equilibrium | A. [A] = [B] B. [A] < [B] C. [B] = [C] D. [A] > [B] |
| 3 | A chemical reaction A B is said to be in equilibrium when | A. Complete conversion of A to B hat taken place B. Conversion of A to B is only 50% complete C. Only 10% conversion of A to B has taken place D. The rate of transformation of A to B is just equal to rate of transformation of B to A in the system |
| 4 | The equilibrium constant in a reversible chemical reaction at a given temperature | A. Depends on the initial concentration of the reactants B. Depends on the concentration of one of the products at equilibrium C. Does not depend on the initial concentrations of recatants D. Is not characteristic of the reaction |
| 5 | Which of the following will not change the concentration of ammonia in the equilibrium $N_2(g) + 3H_2(g)$ $2NH_3(g)$: $\Delta H = -kj$ | A. Increase of pressure B. Increase of temperature C. Decrease of volume D. Addition of catalyst |
| 6 | In a reversible chemical reaction having two reactants in equilibrium if the concentration of the reactants are doubled then the equilibrium constant will | A. Also be doubled B. Be halved C. Becomes one fourth D. Remains the same |
| 7 | At 500 K the equilibrium constant for reaction cis-C ₂ H ₂ Cl ₂ trans-C ₂ H ₂ Cl ₂ is 0.6. At the same temperature the equilibrium constant for the reaction trans-C ₂ H ₂ Cl ₂ cis-C ₂ H ₂ Cl ₂ will be | A. 0.60 B. 1.67 C. 0.66 D. 2.6 |
| 8 | The effect of increasing the pressure on the following equilibrium 2A + 3B 3A + 2B is | A. Forward reaction is favoured B. Backward reaction is favoured C. No effect D. None of the above |