12TH Chemistry

2 Marks Test

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Q1.	State Henry's law and mention some important applications?	2 Mark
Q2.	Draw all the isomers (geometrical and optical) of: $[\text{Co(NH}_3)\text{Cl(en)}_2]^{2^+}$	2 Mark
Q3.	How is the variability in oxidation states of transition metals different from that of the non transition metals? Illustrate with examples.	2 Mari
Q4.	Give the oxidation state, d orbital occupation and coordination number of the central metal ion in the following complex: $(NH_4)_2[CoF_4]$	2 Mark
Q5.	Why do gases always tend to be less soluble in liquids as the temperature is raised?	2 Mark
Q6.	At 300 K, 36 g of glucose present in a litre of its solution has an osmotic pressure of 4.98 bar. If the osmotic pressure of the solution is 1.52 bars at the same temperature, what would be its concentration?	2 Mark
Q7.	From the rate expression for the following reactions, determine their order of reaction and the dimensions of the rate constant. $ \text{CH}_3\text{CHO}\left(g\right) \to \text{CH}_4\left(g\right) + \text{CO}(g) \text{ Rate} = k \left[\text{CH}_3\text{CHO}\right]^{3/2} $	2 Mari
Q8.	The resistance of a conductivity cell containing 0.001M KCl solution at 298 K is 1500 Ω . What is the cell constant if conductivity of 0.001M KCl solution at 298 K is 0.146 \times 10 ⁻³ S cm ⁻¹ .	2 Mari
Q9.	Discuss the nature of bonding in the following coordination entitie on the basis of valence bond theory: $[\text{Fe}(\text{CN})_6]^{4-}$	2 Mark
Q10.	The decomposition of NH $_3$ on platinum surface is zero order reaction. What are the rates of production of N $_2$ and H $_2$ if k = 2.5 × 10 $^{-4}$ mol $^{-1}$ L s $^{-1}$?	2 Mark
Q11.	How would you account for the irregular variation of ionisation enthalpies (first and second) in the first series of the transition elements?	2 Mari
Q12.	A reaction is second order with respect to a reactant. How is the rate of reaction affected if the concentration of the reactant is, 1. Doubled 2. Reduced to half?	2 Mari
Q13.	How would you account for the following: The d ¹ configuration is very unstable in ions.	2 Mari
Q14.	Indicate the types of isomerism exhibited by the following complexe and draw the structure for	2 Mark

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these isomer:

 $[Pt(NH_3)(H_2O)Cl_2]$

- Q15. In what way is the electronic configuration of the transition elements different from that of the non transition elements?
 - 2 Mark
- Q16. Henry's law constant for the molality of methane in benzene at 298 K is 4.27 × 10⁵ mm Hg. 2 Marks Calculate the solubility of methane in benzene at 298 K under 760 mm Hg.
- **Q17.** Vapour pressure of pure water at 298 K is 23.8 mm Hg. 50 g of urea (NH₂CONH₂) is dissolved **2 Mark** in 850 g of water. Calculate the vapour pressure of water for this solution and its relative lowering.
- Q18. Using the standard electrode potentials given in Table 3.1, predict if the reaction between the following is feasible:

 Ag(s) and Fe³⁺ (aq)
- Q19. From the rate expression for the following reactions, determine their order of reaction and the dimensions of the rate constant.
 3NO(g) → N₂O (g) Rate = k[NO]²
- **Q20.** The vapour pressure of water is 12.3 kPa at 300 K. Calculate vapour pressure of 1 molal solution of a non-volatile solute in it.

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