

Q1)

Q3)

Q4)

Q5)

Q6 Q7)

Q8)

Q9)

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EQUILIBRIUM CLASSES CLASS XII SAMPLE PAPER SUB: CHEMISTRY TIME :3 Hr **M**.M 70 All questions are compulsory. Question Nos. 1 to 5 are very short answer questions and carry 1 mark each. Question Nos. 6 to 10 are short answer questions and carry 2 mark each. Question Nos. 11 to 22 are short answer questions and carry 3 mark each. Question Nos. 23 carry 4 mark each Question Nos. 24 to 26 are long answer questions and carry 5 mark each How many effective sodium ions are located at the centres of the faces of a unit cell in sodium chloride crystal? What do you observe when Red Blood corpuscles are placed in Q2) (i) 1% NaCl Solution, (ii) 0.5% NaCl Solution? Give reason for the "blue colour of the sky". Give the role cryolite in the metallurgy of aluminium. соон $C = C - CH_2 OH$ Write I.U.P.A.C. name for, (A)) Name the monomer from which Nylon - 6 is manufactured. What is Zwitter – ion? Distinguish between: Hexagonal Close packing and cubic close packing (i) Tetrahedral void and Octahedral void. (ii) Niobium crystallizes in body centred cubic structure. If density is 8.55 gcm⁻³, calculate atomic radius of niobium using its atomic mass 93U. 45g of ethylene glycol ($C_2H_6O_2$) is mixed with 600gm of water. Calculate (a) the freezing point Q10) depression and (b) the freezing point of the solution. The standard electrode potential for Danial Cell is 1.1V. Calculate the Standard Gibbs energy for Q11) the reaction : $\Delta rG^{\circ} = -RT InK$ OR Calculate the EMF of the cell at 25°C Ni/Ni²⁺ (0.1M) // Cu²⁺ (0.1M) / Cu (i) $E^{\circ}Cu^{2+}/Cu = 0.34 V$ $E^{\circ}Ni^{2+}/Ni = -0.25 V$ How many hours does it take to reduce 3 mole of Fe^{3+} to Fe^{2+} with 2 Ampere current 1F (ii) = 96500 e⁻ Why do the transition elements exhibit higher enthalpies of atomization? Q12) $[NiCl_4]^{2-}$ is paramagnetic while $[Ni(CO)_4]$ is diamagnetic though both are tetrahedral. Why? Q13)

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- Q14) What happens when : (i) Ethyl chloride is treated with aqueous KOH?
 - (ii) Chlorobenzene is subjected to hydrolysis.
- Q15) Explain the difference between Buna N and Buna S.
- Q16) Define thermoplastics and thermosetting polymers with two examples of each.
- Q17) What are food preservatives? Give one examples.
- Q18) Calculate the mole fraction of ethylene glycol (C₂H₆O₂) in a solution containing 20% of C₂H₆O₂ by mass.
- Q19) Depict the galvanic cell in which the reaction, Zn(s) + 2Ag⁺(aq) → Zn²⁺(aq) + 2Ag(s) takes place. (i) Which of the electrode is negatively charged?
 - (ii) The carriers of the current in the cell.
 - (iii) Individual reaction of each electrode.
- Q20) Distinguish between physisorption and chemisorptions.
- Q21) Why is the extraction of copper from pyrites more difficult than that from its oxide are through reduction? OR

Conductivity of 0.00241 M acetic acid is 7.896×10^{-5} SCm⁻¹. Calculate Molal conductivity if _m for CH₃COOH is 390.55 cm²mol⁻¹. What is dissociation constant?

Q22) What happens when :

(i)Concentrated H_2SO_4 is added to calcium floride? (ii)SO

(ii)SO₃ is passed through water?

- Q23) Account for the following :
 - (i) E° for Mn³⁺/Mn²⁺ couple is more positive than for Fe³⁺/Fe⁺.
 - (ii) Zn^{2+} salts are white while Cu^{2+} salts are coloured.
 - (iii) Ce^{3+} can easily oxidized to Ce^{4+} .
 - (iv) Zr and Hf exhibit almost similar properties.
 - (v) Transition elements show variable oxidation states.
- OR (a) Give the chemical equation involved in the reparation of potassium dichromate from chromite ore.
 - (b) Write down the effect of P^{H} on $K_2Cr_2O_7$.
 - (c) Define lanthanoid contraction.
- Q24) Write the equation involved in the followed reactions :
 - (i) Reimer Tiemann Reaction..

(ii)

Q25) Give the structure of A, B and C in the following reaction :

Q26) (a) Deduce the structure of XeF_4 and XeO_3 by applying VSEPR theory.

(b) Arrange the following in the order of property indicated.

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- (i) HOCI, HOCIO, HOCIO₂, HOCIO₃ (decreasing acid strength)
- (ii) NH₃, PH₃, ASH₃, SbH₃ (decreasing basic strength)
- (iii) M F, M Cl, M Br, M I (decreasing ionic character) OR

(a) Write balanced equation for the following :

- (i) NaClO₃ is treated with SO_2 .
- (ii) Ca_3P_2 is treated with water.

(b)Give reason :

- (i) CO_2 is gas while SiO₂ is solid.
- (ii) $SbCl_5$ is more covalent than $SbCl_3$.
- (iii) Interhalogen compounds are more reactive than pure halogen.

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