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II PUC - CHEMISTRY (34)
MODEL QUESTION PAPER - I Maximum marks: 70
Time: 3 hours 15 minutes

Instructions:

- The question paper has four parts: A, B, C and D. All parts are compulsory.
- Write balanced chemical equations and draw labeled diagrams wherever required.
- Use log tables and the simple calculator if necessary.
(Use of scientific calculators is not allowed)

PART-A

I. Answer ALL of the following. (Each question carries 1 mark) 10x1=10
(Answer each question in one word or in one sentence)

- Name a colligative property.
- What does the Van't Hoff factor 'i' for a solute in a solvent account for?
- What is a secondary cell?
- By how many times does the $t_{1/2}$ of zero order reaction increase if the initial concentration of the reactant is doubled?
- Name the catalyst that catalyzes the decomposition of $KClO_3$ into KCl and O_2 .
- Give the composition of 'topper matte'.
- What is the structure of MF_2 ?
- A racemic mixture is optically inactive. Why?
- $\begin{matrix} \text{COCH}_3 \\ | \\ \text{C} \\ | \\ \text{NHCH}_3 \\ | \\ \text{COONa} \end{matrix} + X$. Give the IUPAC name of X.
- What does the primary structure specify about the structure of a protein.

PART-B

II. Answer any FIVE of the following. (each question carries 2 marks) 5x2=10

- Give two differences between Schottky and Frenkel defects in ionic solids.
- Name the gases liberated at anode and cathode respectively when an aqueous solution of sodium chloride is electrolysed.
- Given $2NO_2 + O_2 \rightleftharpoons 2NO_3$; rate = $k[NO_2]^2[O_2]$. By how many times does the rate of the reaction change when the volume of the reaction vessel is reduced to $1/3^{\text{rd}}$ of its original volume? Will there be any change in the order of the reaction?
- Give reasons: i) actinoids show variable oxidation states
ii) Zr and Hf have almost identical radii
- What is Lucas reagent? Between primary and tertiary alcohols, which one of these will react faster with Lucas reagent?
- A carboxylic acid is treated with alcohol in presence of conc. H_2SO_4 . Name the reaction. Give its general equation.
- What are food preservatives? Give an example.
- Name any two types of synthetic detergents.

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