

[8]

[16]

- (v) What is the action of selenium on magnesium metal?
- (vi) Write the name of isomerism in the following complexes: [Cu(NH<sub>3</sub>)<sub>4</sub>] [PtCl<sub>4</sub>] and [Pt(NH<sub>3</sub>)<sub>4</sub>] [CuCl<sub>4</sub>]
- (vii) Write the name of the alloy used in Fischer Tropsch process in the synthesis of gasoline.
- (viii) Henry's law constant for CH<sub>3</sub>Br<sub>(g)</sub> is 0.159 mol dm<sup>-3</sup> bar<sup>-1</sup> at 25°C. What is solubility of CH<sub>3</sub>Br<sub>(g)</sub> in water at same temperature and partial pressure of 0.164 bar?

#### SECTION - B

## Attempt any EIGHT of the following questions:

- Q.3. Explain pseudo-first order reaction with suitable example.
- Q.4. Write the consequences of Schottky defect with reasons.
- Q.5. What is the action of following on ethyl bromide:
  - (i) Na in dry ether
  - (iii) Mg in dry ether
- Q.6. Explain formation of peptide linkage in protein with an example.
- Q.7. Derive an expression to calculate molar mass of non volatile solute by osmotic pressure measurement.
- Q.8. Explain monodentate and ambidentate ligands with example.
- Q.9. Explain the trends in the following atomic properties of group 16 elements:

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**JL Elias** 

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