

- 12 a) Describe the construction and working of Li-ion battery. What are the major advantages of it? (10)
- b) Calculate the EMF of the cell at 25°C: (4)
- $\text{Al} / \text{Al}^{3+}(0.1\text{M}) // \text{Sn}^{4+}(0.1\text{M}) / \text{Sn}^{2+}(0.01\text{M})$
- $E^{\circ}_{\text{Al}^{3+}/\text{Al}} = -1.66 \text{ V}$ ,  $E^{\circ}_{\text{Sn}^{4+}/\text{Sn}^{2+}} = 0.15 \text{ V}$

**Module-II**

- 13 a) Define chemical shift in NMR and explain the factors affecting chemical shift with examples. (8)
- b) Calculate the force constant of H-F molecule that is showing IR absorption signal at  $4000 \text{ cm}^{-1}$ . By what factor do you expect this frequency to shift if Deuterium is substituted for Hydrogen in this molecule? Given that atomic masses of H and F are 1u and 19 u, respectively. (6)
- 14 a) How many vibrational modes are possible for the molecules CO, NO, CO<sub>2</sub> and H<sub>2</sub>O? Draw the vibrational modes of CO<sub>2</sub> and H<sub>2</sub>O and explain their IR active modes. (8)
- b) Each compound gives only one signal in its <sup>1</sup>H-NMR spectrum. Propose a structural formula for each. a) C<sub>5</sub>H<sub>12</sub> and b) C<sub>5</sub>H<sub>10</sub>O (6)

**Module-III**

- 15 a) Describe the instrumentation, principle and working of SEM with the help of a labelled diagram. Give any two applications. (10)
- b) Explain the visualization techniques used in thin layer chromatography. (4)
- 16 a) Describe the principle, instrumentation, procedure and applications of HPLC. (10)
- b) How TGA is used to analyze thermal stability of polymers? (4)

**Module-IV**

- 17 a) Discuss the conformations in butane by depicting the Newman formula about C2-C3 bond of all the conformers. Also draw the energy level diagram with dihedral angle. (10)
- b) How is ABS synthesized? Mention some applications. (4)
- 18 a) Explain the rules for assigning R-S configuration and determine the R-S configuration of all the asymmetric carbon atoms in the molecule after writing its Fischer projection formula. (8)

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