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Engineering Chemistry-I Important 10mark questions

Unit I

- 1. Derive the relationship between molecular mass and vapour density.
- 2. Explain Oxidation and reduction by electronic concept.
- 3. How is the total hardness of water estimated by EDTA method?

Unit II

- 1. Explain the application of nano-particles in medicine and biomaterials.
- 2. Tabulate any five differences between lyophilic and lyophobic.
- 3. Explain the following (i) Tyndoll effect (ii) Electrophoresis

Unit III

- 1. Describe the reverse osmosis process of purification of water.
- 2. Explain the industrial applications of catalysts.
- 3. Calculate the hydrogen ion concentration of a solution whose pOH is 5.8.

Unit IV

- 1. What is electroless plating? What are its advantages over electroplating?
- 2. Describe the construction and working of lead-acid storage cell.
- 3. Explain the construction and working of a Daniel cell.

Unit V

- 1. Explain the two types of cathodic protection methods of protection of corrosion.
- 2. Explain the important surface coatings to protect metals from corrosion.
- 3. What are the components present in paint? Give their function with examples.