

Engineering Chemistry  
Questions

- ① Explain Bohr's atomic model.
- ② State and explain Aufbau Principle.
- ③ Define Molarity.
- ④ How many grams of caustic potash are required to prepare 5 lit of the decinormal solution.
- ⑤ Write down electronic configuration of  $Cl, K, Cr$ .
- ⑥ Explain Lewis theory of acids & bases with suitable examples.
- ⑦ Define covalent bond.
- ⑧ Define chemical bond. Explain how coordinate bond.
- ⑨ Write down postulates of Bohr's atomic model.
- ⑩ Define conjugate acid-base pair. Write down conjugate acid-base pair of  $NH_4^+$  &  $Cl^-$ .
- ⑪ Define Aufbau's principle & Hund's rule of maximum multiplicity.
- ⑫ Define pH of a solution. What is the nature of blood.
- ⑬ What do you mean by a strong acid.
- ⑭ Define an acid according to Lowry Bronsted concept.
- ⑮ Define pH of a solution.
- ⑯ What is the importance of pH in industries.
- ⑰ Write down the failure of Rutherford's atomic model.

- 18) Define Normality (N).
- 19) Define Quantum Number.
- ~~20) Define Molarity and Normality.~~
- 20) Define Molarity and Normality.
- 21) Define Hund's rule of maximum multiplicity giving an example.
- 22) Define Isobars.
- 23) State and explain different postulates of Bohr's - Rury scheme.
- 24) What are the salient features of Rutherford's Atomic Model and why it failed.
- 25) Define Isotopes.
- 26) Define Atomic weight, Molecular weight, and Equivalent weight.
- 27) Define an electrovalent bond. What are the necessary conditions for the formation of ionic bond.
- 28) What is an acid according to Arrhenius theory.
- 29) Write the electronic configuration of Zn, Pb, Sn.
- 30) 250 ml of a solution contains 0.865 gm of  $\text{NaHCO}_3$ . What is its normality.