

SIDDHIKSHA EDUCATION CARE 2024-25 CHEMISTRY - 12

- 1. Write the differences between physiorption and chemisorption.
- 2. Write short note on the following: i) Gabriel phthalamide reaction ii) Carbylamine reaction iii) Diazotisation iv) Coupling reaction v) Sand Meyer reaction
- 3. Derive Nernst equation.
- 4. For the complex ion of [Co(NH₃)₆]²⁺ i) State the hybridization and magnetic nature of the complex. ii) What is the oxidation number of cobalt in the complex. iii) Give IUPAC name of the complex.
- 5. Explain the structure of fructose.
- 6. Write short note on i) Carbylamine reaction ii) Gabriel phthalimide synthesis
- 7. 1) Explain Browian Movement 2) Explain Adsorption theory.
- 8. 1) What are hydrate isomers. 2) Write short notes on werner's theory.
- 9. For the complex [Fe(en)₂cl₂]cl₂. Identify a) Oxidation number of Fe b) Hybridisation c) Shape d) magnetic behaviour e) IUPAC name