

5. a) What are terpenes? Classify. 3
- b) Explain the following reactions of Aniline. 10
- i) Sulphonation ii) Nitration
- iii) Alkylation iv) Oxidation
- v) Coupling reaction

OR

6. a) What is diazotisation ? Discuss the laboratory preparation of Benzene diazonium chloride. 5
- b) Give the industrial applications of starch and Glucose. 4
- c) Give any two preparation of Aniline. 4

SECTION - B

7. a) Discuss the technical preparation of nitronaphthalene. 7
- b) What is aromatic nitration? Explain the mechanism. 4
- c) List the various nitrating agents. 3

OR

8. a) Discuss the technical preparation of nitrobenzene. 6
- b) What are nitrating agents? Discuss the kinetics of nitration. 5
- c) Explain the diagram and working of Biazzi nitrator. 3
9. a) Discuss the aromatic sulphonation. Explain the mechanism. 5
- b) Describe the sulphonation of Caster oil. 6
- c) Explain the Thermodynamics of sulphonation process. 2

OR

10. a) Discuss the sulphonation of Naphthalene. 7
- b) Explain the sulphonation of dimethyl ether. 6
11. a) Discuss the technical preparation of followings- 10
- i) Poly Vinyl chloride ii) Poly isocyanates
- b) What are polymers? Explain the classification with suitable examples. 3

OR

12. a) What is polymerization? Explain with suitable examples. 4
- b) Discuss the technical preparation of the followings. 6
- i) Polyvinyl Acetate ii) Polystyrene
- c) Differentiate Thermoplastic and Thermosetting Polymers. 3
