

OR

- Q-3** **Answer the following questions**
- a. What is purification? Discuss the distillation process in detail (7)
 - b. Write a note on (7)
 - 1. Anthraquinone dyes
 - 2. Food dyes

SECTION – II

- Q-4** **Define Following terms** (07)
- a. Vat dyes (1)
 - b. Azo dyes (1)
 - c. Zeta potential (1)
 - d. Unit Process (1)
 - e. Nitration and Sulphonation (1)
 - f. Patent (1)
 - g. Colloids (1)
- Q-5** **Answer the following questions** (14)
- a. Write a note on Basic operations in dying (5)
 - b. What is unit operation? Explain the mixing process (5)
 - c. What is vacuum distillation? Discuss the types of biosensor (4)

OR

- Q-5** **Write notes on topics:**
- a. Purification methods (5)
 - b. Bio-Nanosensor (5)
 - c. Computational chemistry (4)
- Q-6** **Answer the following questions** (14)
- a. Write a note on Phase transfer catalyst in detail (6)
 - b. Write a note on (8)
 - 1. Regulatory Affairs
 - 2. IPR

OR

- Q-6** **Answer the following questions**
- a. What is synthetic dyes? Discuss the complete classification (6)
 - b. Write a note on (8)
 - 1. Pigment dyes
 - 2. Xanthene dyes

