

(ii) Synthesis Congo red dye and discuss its application. (7)

(OR)

b) (i) Explain the principle involved in separation of dyeing mixtures using gas chromatography (7)

(ii) Give the synthesis and applications of Alizarin. (7)

24. a) (i) Expound the mechanism of hydrogen evolution and oxygen absorption type corrosion. (12)

(ii) What are corrosion inhibitors? (2)

(OR)

b) (i) With a neat diagram discuss the sacrificial anodic method of corrosion control technique. (7)

(ii) List and explain the constituent of paint and mention its application. (7)

25. a) (i) Illustrate and give necessary equation to obtain deionized water by ion – exchange process. (7)

(ii) Demonstrate the soft water obtaining process using Reverse Osmosis. (7)

(OR)

b) Explain the various steps involved in treatment of water for obtaining drinking water.
