R07

Code: R7100305

B. Tech I Year (R07) Supplementary Examinations, December 2012 ENGINEERING CHEMISTRY

(Mechanical Engineering)

Time: 3 hours Max. Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1 (a) Explain break point chlorination.
 - (b) How do estimate dissolved oxygen in water?
- 2 (a) Compare lime soda and zeolite process.
 - (b) Discuss the internal treatment of water.
- 3 (a) Explain factors influencing corrosion.
 - (b) Discuss the cathodic protection.
- 4 (a) What is paint? What are constituents of points and explain their functions?
 - (b) Write note on Galvanization.
- 5 (a) Distinguish between thermo and thermo setting resins.
 - (b) Give note on following about preparation and uses:
 - (i) PVS
 - (ii) Tefflon
 - (iii) Nylon
- 6 (a) What is refractory? How do you classify refractory materials?
 - (b) What are the characteristics of refractory material?
- 7 (a) What are the functions of lubricants?
 - (b) Explain the mechanism of:
 - (i) Thick film lubrication
 - (ii) Thin film lubrication
- 8 (a) Explain ultimate analysis of coal.
 - (b) Discuss the preparation of synthetic petrol by Bergius process.
