

Code: R5100104

**R05**

B. Tech I Year (R05) Supplementary Examinations, May 2012

**APPLIED CHEMISTRY**

(Civil Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Discuss the experimental determination of dissolved oxygen.  
(b) Discuss the types of hardness of water.
- 2 (a) Explain Zeolite process with neat sketch.  
(b) Give note on reverse osmosis.
- 3 (a) Discuss the Galvanic and concentration cell corrosion.  
(b) Explain cathodic protection.
- 4 (a) Give brief account on organic coatings.  
(b) Explain the chemical conversion coatings.
- 5 (a) Distinguish between thermo and thermo setting polymers.  
(b) Discuss the different types of moulding methods.
- 6 (a) Give an account on insulating materials.  
(b) What are the failures of refractory materials?
- 7 Discuss the properties of lubricating oils.
- 8 Explain the manufacturing of dry cement.

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