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Code No: 07A18S07

Set No. 1

I.B.Tech Regular Examinations, May/Jun 2008  
ENGINEERING CHEMISTRY  
(Common to Mechanical Engineering, Mechatronics, Production  
Engineering and Automobile Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks.

- (a) Estimation of free chlorine in water samples.  
(b) Discuss the impurities in water and their effects. [2+7]
- (a) Describe the demineralization of water by ion-exchange method.  
(b) Mention the disadvantages of using hard water for any two industries. [2+4]
- (a) What is meant by differential aeration corrosion? Illustrate with suitable examples.  
(b) How is rate of corrosion in steels affected by:  
i. Nature of corrosion product  
ii. Relative anodic to cathodic areas  
iii. Temperature and moisture. [7+9]
- (a) Discuss how the surface of a metal is prepared prior to the application of a protective coating.  
(b) Write the important applications of protective coating.  
(c) Why is moderate current density employed during electroplating? [10+4+2]
- (a) Explain the preparation, properties and uses of Bakelite.  
(b) Describe with neat diagram, the process of compression moulding. [10+6]
- (a) What is pyrolytic fibre equivalent? How is it determined for a refractory? What is its use?  
(b) Write a short note on:  
i. porosity  
ii. Thermal Conductivity  
iii. Dimensional Stability  
iv. strength [8+8]
- (a) Give the functions of lubricants.  
(b) Describe the mechanism of extreme pressure lubrication.  
(c) How a viscous lubricant is converted into grease? [6+6+2]
- (a) Explain how fuels are classified with suitable examples.

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