Code: EE2T3, EM2T3, ME2T3

I B. Tech-II Semester-Regular Examinations - July 2013

ENGINEERING CHEMISTRY (For EEE, ECM, MECHANICAL)

Duration: 3 hours	Marks: 5x1	4=70
Answer any FIVE questions.		
1. a) What is meant by water seemethod.	softening? Explain the ion	7 M
b) What is desalination of be reverse osmosis with diag		method 7 M
2. a) Illustrate stoichiometric a conductors	and non-stoichiometric sen	ni- 6 M
b) What are liquid crystals? important applications.	What are different types?	Write 8 M
3. a) What is solar energy? Ex disadvantages of solar en	•	7 M
b) Describe solar heaters an	nd give some uses	7 M

4. a) Explain the factors influencing corrosion	6 M
b) Write notes on	
i) sacrificial anodic protection	
ii) impressed current cathodic protection	1 8 M
5. a) What are different methods of polymerization	n? Explain.
	7M
b) Describe the preparation, properties and use	of Polystyrene,
PTFE and Bakelite	7 M
6. a) What is compounding of plastics? Explain va	irious
constituents.	7 M
b) Write notes on	
i) Glass fiber reinforced plastics	
ii) Bullet proof plastics	7 M
7. a) How a nano material is different from norma	al material?
Explain	6 M
b) Describe preparation, properties and uses of	fullerenes
o, zoodiioo proputation, proportios ana acces oz	8 M
8. a) What are the advantages of green approach is	n the synthesis
of chemicals	6 M
b) Write notes on	
i) Phase transfer catalysis	
ii) Microwave induced method	8 M
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