

Subject Code: R10204/R10

Set No - 1

I B.Tech II Semester Supplementary Examinations May - 2016

ENGINEERING CHEMISTRY-II

(Common to All Branches)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions

All Questions carry equal marks

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1. (a) Discuss (i) biodegradable polymers (ii) physical properties of polymers.
(b) Write the preparation and applications of PTFE and PVC. [8+7]
2. (a) Explain with neat sketch compression and injection moulding methods.
(b) Write notes on glass fiber reinforced plastics. [8+7]
3. (a) What are the drawbacks of natural rubber. How can they be modified?
(b) Discuss the preparation and applications of polyurethane and Buna-S. [8+7]
4. (a) What are carbon nanotubes? Describe chemical vapour deposition method for preparation of carbon nanotubes.
(b) What are fullerenes? Explain its applications. [8+7]
5. (a) Describe the manufacture of cement by wet process.
(b) What are glazed and unglazed ceramics? Give the applications of ceramics. [8+7]
6. (a) Write notes on antiknocking agents and cetane number.
(b) Explain fluid film lubrication and thin film lubrication. [8+7]
7. (a) Discuss (i) differential aeration corrosion (ii) cathodic protection
(b) Explain the factors affecting the rate of corrosion [8+7]
8. (a) Explain the need of green chemistry.
(b) Write the applications of green chemistry.
(c) Discuss super critical fluid extraction method of green synthesis. [5+5+5]

