

Code No: R10204

R10

SET-1

I B. Tech II Semester Supplementary Examinations, November - 2021

ENGINEERING CHEMISTRY-II

(Com. 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 the importance of biodegradable polymers. (8M)
b) What are polymers? Discuss the classification of polymers. (7M)
 2. a) What are the roles of plasticizers, antioxidants and fillers in compounding of plastics? Give examples. (8M)
b) Explain bullet proof plastics. (7M)
 3. a) How is natural rubber prepared? What are its drawbacks? (8M)
b) Write the preparation and uses of polyurethane. (7M)
 4. a) Explain single and multi-walled nanotubes? (8M)
b) Discuss the laser ablation method for preparation of carbon nanotubes. (7M)
 5. a) Explain manufacture of cement by wet process. (8M)
b) Explain any two properties of refractories. (7M)
 6. a) Explain the working of internal combustion engine. (8M)
b) Explain thick film mechanism of lubricants. (7M)
 7. a) Discuss differential aeration and bimetallic corrosion. (8M)
b) What are paints, varnishes and enamels? (7M)
 8. What is the concept of green chemistry? Explain how green chemistry is applied in present scenario. (15M)