

Reg. No.

--	--	--	--	--	--	--	--	--	--

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
 (AUTONOMOUS)
B.Tech I Year I Semester (R16) Supplementary Examinations June 2017
ENGINEERING CHEMISTRY
 (Common to ECE & CSE)
 (For Students admitted in 2016 only)

Time: **3 hours**Max. Marks: **60**(Answer all Five Units **5 X 12 = 60** Marks)**UNIT-I**

- 1 a Write a short note on CH₃OH- O₂ cell 6M
 b Write a note on Lead acid battery 6M

OR

- 2 a Write a note on sacrificial anodic protection? 6M
 b Discuss about Impressed Current Cathodic protection 6M

UNIT-II

- 3 What is the principle of EDTA titration method? Describe the estimation of hardness of water by EDTA titration method. 12M

OR

- 4 Describe briefly boiler troubles and their treatment 12M

UNIT-III

- 5 a Explain Bergius process for the manufacture of synthetic petrol. 6M
 b Discuss about Cetane number? 6M

OR

- 6 a Write short note on Flash and Fire point 6M
 b Write short note on Aniline point & Neutralization number 6M

UNIT-IV

- 7 a Write the preparation, properties and uses of Polyurethane rubber 2½M
 b Buna-S rubber 2½M
 c Silicones 2½M
 d PVC 2½M

OR

- 8 a Distinguish between Thermoplastics and thermosetting plastics? 6M
 b Explain the procedures used in the processing of natural rubber? 6M

UNIT-V

- 9 What is the refractoriness? Explain thermal spalling, porosity, dimensional stability and thermal conductivity of the refractoriness? 12M

OR

- 10 a Discuss the Fullerenes and Carbon nano tubes? 6M
 b What is meant by setting & hardening? Explain? 6M

***** END *****