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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**B.Tech I Year I Semester (R16) Regular Examinations December 2016****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**

- Q1** a. Write a note on Lead acid battery 6M
b. Write a note on Hydrogen-Oxygen fuel cell 6M

OR

- Q.2** Define corrosion? Discuss in detail about wet corrosion? 12M

UNIT-II

- Q.3** Describe the Ion exchange process for demineralization of water? what are the advantages and disadvantages of ion exchange process 12M

OR

- Q.4** Define hard water? Describe the estimation of hardness of water by EDTA method 12M

UNIT-III

- Q.5** a. Write a note on synthetic petrol by Fischer-Tropsch process. 6M
b. What are the characteristics of a good fuel? 6M

OR

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

UNIT-IV

- Q.7** Explain different types of Polymerization process with suitable examples? 12M

OR

- Q.8** What are conducting polymers? How are they classified? Write important engineering application? 12M

UNIT-V

- Q.9** a. Define Portland cement? Write its chemical composition? 6M
b. What is meant by setting and hardening of cement? 6M

OR

- Q.10** Write a short note on properties of carbon nano tubes and Fullerenes. 12M

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