

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech I Year II Semester Regular & Supplementary Examinations August-2023

ENGINEERING CHEMISTRY

(Common to CE & AGE)

Time: 3 Hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1 Describe the estimation of hardness by EDTA method. CO1 L3 12M

OR

2 a Explain about demineralization of brackish water by Electrodialysis. CO1 L2 6M

b Explain about demineralization of brackish water by Reverse Osmosis. CO1 L2 6M

UNIT-II

3 a Explain the Construction and working of Lead acid battery. CO2 L2 6M

b Describe the Construction and Working of Methanol – Oxygen Fuel cell. CO2 L3 6M

OR

4 Explain various factors influencing the rate of corrosion. CO2 L3 12M

UNIT-III

5 a Distinguish between Thermoplastics and thermosetting plastics. CO3 L4 6M

b Describe the preparation, properties and uses of Bakelite. CO3 L3 6M

OR

6 Explain the analysis of Coal (Proximate and Ultimate) With its Significance. CO3 L2 12M

UNIT-IV

7 What is meant by composites ? Classify the composites materials. CO4 L1 12M

OR

8 Define Cement. Explain in detailed about manufacture of Portland Cement. CO4 L2 12M

UNIT-V

9 Write any two methods synthesis of colloids with suitable examples. CO5 L1 12M

OR

10 Write a brief note on Applications of Colloids and Nano materials. CO5 L1 12M

*** END ***

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Item No.	Description	Quantity	Unit	Rate	Total
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