Q.P. Code: 20HS0804			20
R	eg. No:		
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR			
(AUTONOMOUS)			
	B.Tech I Year II Semester Supplementary Examinations May-2022		
ENGINEERING CHEMISTRY			
-	(Common to CE & AGE)		
1		Max. I	Marks: 60
(Answer all Five Units $5 \times 12 = 60$ Marks)			
	UNIT-I		
1	How do you estimate dissolved oxygen in water is determined by Winkler's method?	L4	12M
OR			
2	a What are the specifications of the drinking water BIS and WHO Standards?	L1	6M
	b Explain about demineralization of brackish water by Electrodialysis.	L2	6M
	UNIT-II		
3	Explain various factors influencing the rate of corrosion.	L3	12M
	OR		
4	a What is Electrochemical cell? Give an example.	L1	4M
	b Define Electrode Potential. Derive the Nernst equation for a single electrode potential and write its applications.	L1	8M
	UNIT-III		
5	a Distinguish between Thermoplastics and thermosetting plastics.	L4	4M
	b Explain the mechanism of addition polymerization.	L2	8M
	OR		
6	Describe the method employed for the refining of petroleum with neat sketch.	L3	12M
	UNIT-IV		
7	Discuss the mechanism of different types of lubrication.	L3	12M
0	OR		
8	 a Write a note on Fiber reinforced materials. b What are the group article of a group article material. 	L1	6M
	b What are the properties of composite material	L1	6M
9	UNIT-V	T 1	(M
9	a Write an account on carbon nano tubes.b Write a note on fullerenes.	L1	6M
	OR	L1	6M
10	Discuss the principle, instrumentation and applications of Transmission electron	L3	12M
	microscopy (TEM).	10	Amira

*** END ***