

Reg	. No:]			
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR															
(AUTONOMOUS) B Tech I Year I Semester Supplementary Examinations, July-2022															
	D.	IECH	i i cai	I Sei	ENG	INEE	RING	CHE	iy ∟∧ MIST	'RY	ation	s July	-2022		
(Common to ECE, CSE, CSIT)															
Time: 3 hours Max. Marks															
(Answer all Five Units $5 \times 12 = 60$ Marks)															
							UNI	Г-І							
1	a Discuss the working principle of Ni-Cd batteries.b Define fuel cell Explain the construction and uses of Hudrogen Orwers fuel cell												c 1 11	6M	
	OR														
2	2 a Explain the mechanism of Dry Corrosion.														
_	b Describe how electro-less plating of copper is carried out. Mention its advantages.													6M	
	UNIT-II														
3	a Describe the Zeolite process for softening of water.												8M		
	b Differentiate between scale and sludge.													4M	
4	X 71	41		f T				}				- f 1	.1	1014	
4	What is	une pr ethod	incipi		EDIA	metn	00? L	Jescrit	be the	estin	ation	of nar	dness by	1211	
	LDIAI	ietiiou.					UNIT	-111							
5	a Illustra	ate hov	<i>w</i> synt	hetic r	oetrol	is mar	nufactu	ired th	rough	fisch	er-troi	osch me	ethod.	8 M	
	b Give t	he crit	eria fo	r selee	cting g	good f	uel.		0		1			4 M	
							OI	ł							
6	a Discus	ss the 1	necha	nism o	of diff	erent t	ypes o	of lubr	ication	1.				8M	
	b What is flash and fire point? Explain their significance.														
7	a Give t	he diff	erence	es betv	ween t	hermo	plasti	c and t	hermo	osettin	g resi	ns with	examples	6M	
	b Write	prepar	ation,	prope	rties a	nd eng	gineer	ng ap	plicati	ons of	f Bake	lite.		6M	
ø	a Disaw	aa tha	maah	oniom	off			{ additi	on n	lumo	rizotio	n with	quitable	714	
ð	a Discus examp	ole.	mech	amsm		ree ra	luicai	additt	on pe	nymei	izatio	n with	suitable	/1 V1	
b Explain the procedures used in the processing of natural rubber.													5M		
							UNI	Γ-V							
9	What do	you n	nean t	by sett	ting a	nd har	dening	g of c	ement	? Dise	cuss tl	he vari	ous steps	12M	
	involved	with t	he helj	p of cł	nemica	al equa	ations.								
10	o Winita	a char	t noto	00 000	nortio	s of a	OF	k nanc t	ubaca	nd Ev	lloror	90		6M	
10	h write	a snor differe	nt ann	on pro licatio	ns of	s of Ca quanti	in dot	nano t s	ubes a	nu ru	neren	55.		6M	
			upp	uti0		Jound	u01							UIVE	

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