

Reg.	No:														
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) B.Tech I Year I Semester Supplementary Examinations November-2020														
	D.10			Jenne				HEM			0113 1	101	CIIID	CI-20/	20
								EEE &							
Time:	3 hours												Μ	ax. Ma	rks: 60
	(Answer all Five Units 5 x 12 = 60 Marks) UNIT-I														
1	a Writ										· ·				6M 6M
	U WIIA	t is prir		allel y	· ••11				LIIIC-P	in Dat	tery.				UIVI
2	a Wha	t is prir.	nary B	attery	? Wri	te a br	-		Zinc-A	ir bat	tery.				6 M
	b Explain the construction and working procedure of Hydrogen-Oxygen fuel cell. UNIT-II													cell.	6M
2	a Dari	vo Sohr	odina			stion?	UNI	1-11							8M
3	a Deri	ain the	0		-										δΝ 4M
	U LAPI	ann the	ound t	neory	01 501	10.5.	0	R							4101
4	a Write the postulates of molecular orbital theory.														6M
	b What is Crystal field theory? Explain the crystal field splitting in octahedral														
	complexes.														6M
							UNI	Γ-III							
5	a Expl	ain the	mecha	nism	free ra	dical	additi	on pol	ymeri	zation	with	exar	nples	5.	6M
	b Distinguish between Thermoplastics and thermosetting plastics.													6M	
	Ð						0		NT 1						-
6	a Desc								•		-				5M 7M
	D Desc	cribe the	e prepa	aratior	i, prop	erties	UNI		Carbo		218.				7M
7	a Explain the principle and instrumentation of Gas Chromatography.													8M	
,	b What are the applications of Gas Chromatography?												4M		
							0								
8	a Give	an acc	ount o	n prin	ciple a	and ins	strume	entatio	n of I	R spec	trosco	ору.			6M
	b Write a note on Potentiometry.													6M	
							UNI								
9	a Wha		-												6M
	b Defi	ne Diel	ectrics	? Wha	at are t	the cha			ot Ele	ctrica	I Insul	lator	s?		6 M
10	a Wha	t are th	e class	ificati	one of	Incul	0 ating r		al and	their	annlia	atio	nc?		6 M
10		e a note					-		ui allu	unell à	upphe	au	15:		6M
	~ •••••	e a note		Yuru I	insulut										UIVE

*** END ***