Reg.	No:]			
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR															
(AUTONOMOUS)															
	B.lee	ch II Y	ear II	Seme	ester TCU	Supp		ntary		minat	TONS	February	-2022		
	(Electrical and Electronics Engineering)														
Time: 3 hours Max. Marks: 60															
				(Ar	swer	all Fiv	e Uni	ts 5 x	12 = 0	60 Ma	ırks)				
UNIT-I															
1	Express the function Y=A+B'C in											L3	12M		
	(i) Canonical SOP form (ii) Canonical POS form														
	OR														
2	2 A receiver with even parity hamming code is received the data as											as 1110110). L3	12M	
Determine the correct code.															
	N. · ·	71								1015					
3	Minimize the given Boolean function $E(A, B, C, D) = \sum m(2, 2, 5, 7, 8, 10, 12, 12)$ using tabalation methods										L2	121/1			
	1 (А, D, С,	,D) - 2	2 m(2,	5,5,7,	0,10,1	2,13)	R	labula		lethot				
4	Simplif	y the fo	ollowii	ng Boo	olean	expres	sions	using	K-ma	p.			L3	12M	
		ŀ	F(A, B	, C, D	$= \pi M$	(0,2,3	,8,9,1	2,13,1	5)						
UNIT-III															
5	5 What is Encoder? Design the circuit for Octal to Binary encoder with truth table													12M	
		OR													
6	What is	Demu	ltiplex	er? De	esingn	1:8 D	emulti	plexe	r using	g 1:4 I	Demul	tiplexers.	L1	12M	
	UNIT-IV														
7	Design	and im	pleme	ent 3-ł	oit rip	ple co	unter	using	J-K f	lip flo	p. Dr	aw the stat	e L3	12M	
	diagram, logic diagram and timing diagram for the same.														
ø	o Drow	tha la	aio di	0.0110100	for T		U	R	ma CI		Flore	Eveloie th	а I 1	(M	
0	a Diaw	tion wi	ith trut	agram th tabl	IOF L	Гпр	гюр	by us	ing Sr	стпр	гюр	Explain in	e LI	OIVI	
	b Write	the di	fferend	ces bet	e. ween	combinational and sequential circuits							L2	6M	
							UNI	T-V							
9	Implem	ent the	follov	ving B	oolea	n func	tion u	sing P	AL.				L3	12M	
	$(i)W(A,B,C,D) = \Sigma m(0,2,6,7,8,9,12,13)$														
	(ii)X(A,	,B,C,D) =Σm	(0,2,6	,7,8,9,	12,13	,14)								
	$(iii)Y(A,B,C,D) = \Sigma m(2,3,8,9,10,12,13)$														
	(iv)Z(A	,B,C,D	$) = \Sigma n$	n(1,3,4	1,6,9,1	2,14)	_								
10	o Williant	in EQ.	19 C:	10 th -		otion	0 of EG	R					1.2		
10	b Evolution	in abo	ut Mer	ne the	applic	ations	of FS	IVI.						olvi 6M	
	n Lyhe	in a00		inory (iccoul	ng.							13	UIVI	

R19

*** END ***