

Reg. No:														
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR														
						(AU	TON	OMOU	S)					
	Μ	TEC	H II Ye	ear I S	Seme	ster I	Regu	lar Ex	amin	ation	s No	v/Dec 2019		
				H\	/DC 1	FRAN	SMIS	SION	SYS	TEMS	3			
					(Powe	er Ele	ctron	ics)					
Ti	Time: 3 hours Max. Marks: 60													
				(Ans	swer a	ll Five	Units	s 5 x 1	2 = 60	Mark	xs)			
							UNI	Г-І						
1	a Compare	differ	ent pe	rforma	ance a	spects	of AC	C and I	DC tra	nsmis	sion.		6 M	
	b Draw schematic diagrams of HVDC links and explain the functions of elements in it.												6 M	
•	****						OF	2		0			1075	
2	2 With the help of neat schematic diagram explain the operation of three phases, six p Greatz circuit and derive equations for every voltage and every state.											bhases, six pulse	12M	
3	o Evolain v	vhat th	o diff	aront c	necial	featu	UNII res of	-11 the co	nverte	r tran	form	2r	6M	
5	b Explain the working of twelve pulse converter circuit?											6M		
	~		8		F		OF	R					0112	
4 Explain the Effect of Commutation Failure, Misfire and Current Extinction in											ion in LCC links	? 12M		
							UNIT	-III						
5 Write short notes on the following terms i)Individual phase co										contro	l		12M	
						i	i) Con	istant e	extinct	ion ar	ngle			
	F 1 ' ' '	1 / 11	1 /			c• •	OF	2	. 1	1.	.1 1	1 1 0 1 .	1017	
0	Explain in c scheme?	letail a	ibout e	equidis	stance	firing	angle	schen	ne. Al	so list	the dr	aw backs of this	12M	
						ſ	UNIT	-IV						
7	What are the different types of converter faults? Explain briefly about converter Faults?												12M	
	~					_	OF	2						
8	a Briefly ex	xplain	what t	the dif	ferent	harm	onic ir	istabil	ity pro	blem	s are.		6M	
	b Explain t	b Explain the DC power modulation scheme used in interconnected operations of AC												
	allu DC S	ystem	5.				TINIT	V						
9	a Discuss s	eries r	nulti ta	ermine	al HV	DC ev	stem @	nd ite	contre	ป			6M	
,	b Give the comparison between series and narallel MTDC systems												6M	
		-ompo				un un		ιοι 101 ζ		Jucin			UIVE	
10	Discuss dia MTDC sys	fferent tem.	types	s of N	ITDC	syste	ms an	d exp	lain th	e con	trol so	cheme in any or	ne 12M	

*** END ***