

Reg.	No:											]			
C	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR														
								OMOU							
	BTEC	CH IV Y	'ear I	Seme	ester	·				ninat	ions	Nove	mber-	2020	
				Η\	/DC 1	RAN	SMIS	SION	SYS	TEMS	5				
				(E	lectric	cal & I	Electro	onics I	Engine	ering	)				
Time: 3 hoursMax. Marks: 60															
				(Δ	nswer	· all Fi	ve Un	its <b>5 x</b>	12 -	60 Ms	arks)				
				(1)		ann		IT-I	14 -	00 1010	unsj				
1	a Wh	<b>a</b> What the differences between AC and DC transmission system?													<b>8</b> M
•	<b>b</b> Explain the types of DC Links.													4M	
	N 2.	p	e tjpes	0120			C	DR							
2	<b>a</b> Ex														6M
		figuratio													
	<b>b</b> Explain the basic conversion principles with neat circuit diagrams.														6M
								IT-II							
3		lain the o													6M
	<b>b</b> Exp	plain the	Basic	conve	rsion j	princip			DC Tra	ansmis	sion s	ystem			6M
4	XX 71		1	<b>.</b>	1	1.1.	-	)R		1.1.	а <b>с</b> .	1	C.	C	$\mathbf{A}$
4		at is me	•			•				•			wave ic	orms of	6M
	voltage and current in a 6 pulse Graetz circuit with $\alpha = 30^{\circ}$ and $\alpha = 15^{\circ}$ <b>b</b> Write the special features of converter transformers.													6M	
UNIT-III															0101
5	a Des	scribe th	ne two	basic	firing	angle			emes	adonte	ed for	HVDO	C syste	m with	6M
U		t sketche											e sjote		0101
	b Exp	plain the	harmo	onics e	limina	tion in	n a HV	DC Ti	ansmi	ssion s	system	l			6M
	OR														
6	a Exp	olain firi	ng ang	gle con	trol ar	d brie	fly exp	olain b	asic fi	ring ar	ngle sc	hemes			6M
	b Exp	plain the	consta	ant ext	inction	ı angle			consta	ant ign	ition a	ingle c	ontrol		6M
							UNI	T-IV							
7		olain all	• •						gn.						<b>8M</b>
	<b>b</b> Exp	plain the	elimir	nation	of Har	monic									<b>4</b> M
0	г	1 · 11	.1 .	C I		L		) <b>R</b>							
8		plain all	• •						gn.						6M
	D GIV	ve the de	esign as	spects	or dou	ble tu									6M
0	<b>a</b> Briefly explain over voltage protection scheme in the HVDC system.													01	
9							on sch	eme in	the H	VDC	systen	1.			6M
		<ul><li>b Write a short note on the following</li><li>(i) Commutation failure (ii) Surge arresters.</li></ul>													6M
	(1)	Jonninu			(11)	uige a		) <b>R</b>							
10	<b>a</b> What are the different causes of converter faults?												6M		
-		plain hov							er volta	age pro	otectio	n meth	nods.		6M

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