	Registration No:	30000									I.TECH
Ta	otal Number of Pages	·1								_	
- (SEMEST	ER SUPP	LE EX	AMI	NATI	IONS	, DEC	CEME	BER 2018	
			LE AC T								
		Branc	ch: PE, Su				PE10	54			
				gulation							
Ti	me: 3 Hours			ax Mar				Qu	estio	n Code: SD1	.8002078
	4 0 11 1	.•	PART-	A (10	X 2=2	0 Ma	rks)				
1.	Answer the following	questions.									
	a) How is the reactive	va navvar aan	trallad na	ina EA	CTC 4	ovico	₀ 2				
	a) How is the reactiveb) Why there is a ne	-		_				1 02			
	c) How power flow						system	15 :			
	d) Define Sub synch	-	-	JICCUIC	ai sysu	.1115 :					
	e) What is the need			nics has	ed reo	เปลี่ย	rs?				
	f) Give the block dia										
	g) State objective of			Commo	. Sellel						
	h) How GCSC & TO	-		her.							
	i) State the objective	es of voltage	and phase	angle	regulat	ors.					
	j) What are the need	ls for providi	ng compe	nsation	?						
		PAI	RT-B (5 X	X 10=50) Mark	(s)					
		Answer any	five quest	ions fro	om the	follo	wing.				
2.	a) Discuss the modeli	cuss the modeling of TCSC for load flow study with a neat block diagram.							[5]		
	b) Explain the co-ord	dination of m	ultiple cor	ntrollers	susing	linea	ar con	trol te	chniq	ues	[5]
2	a) A mailer tha an adalin a	of CCCC for		4 4:	•						[6]
3. a)Apply the modeling of SSSC for power flow studies.b)What are the main advantages of FACTS controllers? Also list and explain different							fforant types	[5]			
	of FACTS controlle	_	TACIS	Control	icis: F	1180 1	ist am	u expi	aiii ui	merent types	[5]
	of PAC13 controlle	18.									
4	a) Explain with a neat	sketch and w	vaveforms	the GC	CSC tv	pe of	series	conti	roller		[5]
b) Explain the basic concept of voltage regulator with the help of a phasor diagram									am	[5]	
	, 1	•				1	1		U		
5.	a)What are the advant	ages of three	-phase cor	nverters	over s	single	e-phas	e con	verter	s?	[5]
	b)Explain the operation	on-I characte	ristics, dia	igram a	nd loss	s char	racteri	stics	of TSO	Z.	[5]
6.	a) Describe the effect		-		-						[5]
	b) Explain the basic co	oncept of vol	tage regul	ator wit	th the l	nelp (of a pł	nasor (diagra	m	[5]
7	a) Evaloin the transies	nt stability on	hanaamar	st and m			ation	domes	ina of	CMID avata	m [5]
/.	a) Explain the transient stability enhancement and power oscillation damping of SMIB system with SVC.										m [5]
	b) Explain the operation	on of variable	e impedan	ce tyne	static	var o	enerai	tors			[5]
O	Write Short notes on		mpedan	ee type	static	van g	ciicia	1013			[2]
Ō.											[5]
	a) operation of IPFCb) V-I characteristics	of TCD & TC	ď								[5]
	v-i characteristics	or rok & IC	/IX								[-]

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