

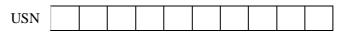


Internal Assesment Test -I

Sub: FACTS AND HVDC TRANSMISSION Code						e: 1	15EE751				
Dat	e: 22/09/2018	Duration:	90 mins	Max Marks:	50	Sem:	7	Brar	nch:	EEE	
	Answer Any FIVE FULL Questions										
								OI	3E		
									Mark	s CO	RBT
1	Explain in detail the v	arious types of	FACTS co	ntrollers					[10]	CO2	L2
2a Describe the factors that limits the loading capability of a transmission line?					[5]	CO1	L2				
Describe the factors that limits the loading capability of a transmission line? Write a note on relative importance of controllable parameters. Justify how reactive shunt compensation in a transmission line increases the transmittable.			[5]	CO1	L1						
	Justify how reactive shunt compensation in a transmission line increases the transmittable power.							[10]	CO3	L3	
4								[10]	CO3	L3	

P.T.O

CMR INSTITUTE OF TECHNOLOGY





Internal Assesment Test – I

Sub:		FACTS AND HVDC TRANSMISSION C							Cod	Code: 1:		15EE751	
Da	ate:	22/09/2018	Duration:	90 mins	Max Marks:	50	Sem:	7	Brai	nch:	: EEE		
Answer Any FIVE FULL Questions													
									OBE				
										Marl	CO	R	RBT
Explain in detail the various types of FACTS controllers							[10]	CO	2	L2			
2a	2a Describe the factors that limits the loading capability of a transmission line?					[5]	CO	L	L2				
2b Write a note on relative importance of controllable parameters.					[5]	CO	L	L1					
Justify how reactive shunt compensation in a transmission line increases the transmittable power.					ttable	[10]	CO:	3	L3				
Explain how TCR can be effectively used to damp oscillations in power system.							[10]	CO:	3	L3			

P.T.O

5	Describe the operation of TCR with waveforms.	[10]	CO3	L2
6	How can you eliminate harmonics using TCR?	[10]	CO3	L1
7	Explain in detail about TSC and illustrate the conditions for transient free switching.	[10]	CO3	L2

5	Describe the operation of TCR with waveforms	[10]	CO3	L2
6	How can you eliminate harmonics using TCR?	[10]	CO3	L1
7	Explain in detail about TSC and illustrate the conditions for transient free switching.	[10]	CO3	L2