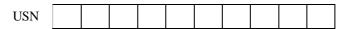
CMR INSTITUTE OF TECHNOLOGY





Internal Assesment Test - III

Sub:	o: FACTS AND HVDC TRANSMISSION Code					le: 15EE75		E751					
Date:	20/11/2018	Duration:	90 mins	Max Marks:	50	Sem:	7	Branch: EE			EE		
	Answer Any FIVE FULL Questions												
											OE	BE	
									Marl	ks	СО	RBT	
1	Explain the different types of HVDC links with diagram					[10]]	CO5	L2				
Explain the principle parts of HVDC Transmission with relevant diagram.					[10]]	CO5	L2					
Compare HVDC & HVAC transmission on the basis of: i) Economic considerations ii) Technical Performance iii) Reliability					[5]		CO5	L2					
3b	Explain in detail about the advantages of HVDC system.					[5]		CO5	L2				
Best converter circuit for the HVDC transmission system is three phase bridge. Justify the statement by explaining advantages of a 3 phase Graetz bridge configuration.					[10]		CO6	L5					

P.T.O

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USN



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5	How can you avoid commutation failure in converters of HVDC system?	[10]	CO7	L1
6	Explain in detail Converter control of HVDC system.	[10]	CO7	L2
	With a neat block diagram, explain the control system of HVDC system with its control characteristics.	[10]	CO7	L2
	How can you compensate reactive power and maintain the voltage stable in a HVDC transmission line?	[10]	CO6	L1

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8	How can you compensate reactive power and maintain the voltage stable in a HVDC transmission line?	[10]	CO6	L1