

Internal Assessment Test - III

Sub:	FACTS AND HVDC TRANSMISSION					Code:	15EE751
Date:	20/11/2018	Duration:	90 mins	Max Marks:	50	Sem:	7
Answer Any FIVE FULL Questions						Branch:	EEE

		Marks	OBE	
			CO	RBT
1	Explain the different types of HVDC links with diagram	[10]	CO5	L2
2	Explain the principle parts of HVDC Transmission with relevant diagram.	[10]	CO5	L2
3a	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
4	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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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
7	With a neat block diagram, explain the control system of HVDC system with its control characteristics.	[10]	CO7	L2
8	How can you compensate reactive power and maintain the voltage stable in a HVDC transmission line?	[10]	CO6	L1

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