		(3 Hours)	[Total Marks: 80]	
	N.B.:	(1) Question No.1 is compulsory		
		(2) Attempt any three from the remaining		
		(3) Figures to the right indicate full marks		
		(4) Assume suitable data if necessary		
1	Solve any four :-			20
	(a)	List out the advantages of HVDCT		
	(b)	What is meant by ground return in HVDCT?		
	(c)	Write a short note on Arc back.		
	(d)	Explain effects of harmonics in HVDC system.		
	(e)	Brief converter transformer.		
2	(a)	Give the equivalent circuit of a 12 pulse converter, What a condition modes?	re the different	10
	(b)	Draw and explain the operation of a 6 pulse converter with than 60°	h overlap angle less	10
3	(a)	Explain single commutation failure with diagram and wave	eform	10
	(b)	Explain power reversal in HVDCT.		10
4	(a)	Explain over voltage and over currents protection in HVD0	CT	10
	(b)	Explain basic control characteristics of HVDCT		10
5	(a)	Explain two methods of Equidistant Pulse Control		10
_	(b)	Explain different types of faults in HVDC link.		10
	(0)	Explain different types of facility in 11 v Be min.		10
6	(a)	Explain the DC filters in HVDCT.		10
	(b)	Compare AC transmission and HVDC transmission		10

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