30-11-15

QP Code: 5898

B.E. Electrical VII CBGS HVDCT

	(3 Hours)	Total Marks: 80
V.B		10
	Answer any three from the remaining six questions	
	Figures to right indicate full marks	
	Assume suitable data if necessary	
Q. 1	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE)
(a)	Explain different types of HVDC links	1
(b)	Explain with neat diagrams and waveforms the principle of 12 pulse converter	10
Q.2	N. C.	
(a)	What are the main components of HVDC transmission	10
(b)	Explain the firing schemes in HVDC valves.	10
Q.3		
(a)	Explain the causes of harmonic generation in HVDC and its effects or system.	
(b)	Draw control characteristic of rectifier, inverter provided with both C. C.E.A. controller and explain in brief.	C. and 10
Q.4		
(a)	Explain single commutation with neat waveforms and diagrams.	10
(b)	Draw and explain a block diagram of the Hierarchical levels of contro HVDC transmission system.	
Q.5		
(a)	Give comparison between A.C. transmission and HVDC transmission.	. 10
(b)	Justify the statement "converter consumes reactive power"	10
Q.6		
-	Explain the importance of current margin.	10
	Operation of the bridge converter with overlap angle more than 60° is	10
	abnormal. Justify the statement.	
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