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Roll No. Total No. of			Pages: 01	
Tot	al No	o. of Questions: 08		
		M.Tech.(Power System) (Sem2) H.V.D.C. TRANSMISSION Subject Code: PEE-508 M.Code: 38810		
Tim	Time: 3 Hrs. Max. Ma			
INS1 1. 2.	Atte	TION TO CANDIDATES: empt any FIVE questions out of EIGHT questions. h question carries TWENTY marks.		
Q1	a)	Explain the H.V.D.C. Power flow mechanism in details with all components.	(12)	
	b)	Differentiate between H.V.D.C and EHVAC power flow link.	(8)	
Q2.		aw and explain the working of 3-phase 6-pulse bridge converter with igrams, waveforms and applications.	suitable (20)	
Q3.	a)	What are difference between operating features of rectifier and inverter?	(10)	
	b)	What are the roles of CIA and CEA and CC in HVDC?	(10)	
Q4.		Why reactive power compensation is required in HVDC substation? Explain	them. (10)	
		Explain static VAR system for the load compensation.	(10)	
Q5.	a)	How harmonics is eliminated in HVDC? Explain.	(5)	
	b)	Design a harmonic filter to reduce the telephone interface for HVDC.	(15)	
Q6.	Dis	scuss and analyze the stability aspect of asynchronous link.	(20)	
Q7.		hat is multi-terminal HVDC substations system? Explain with suitable diagram way rm analysis. (20		
Q8.	Wı	rite short notes on :		
	a)	Equivalent circuit of HVDC line.	(5)	
	b)	Protection of HVDC system.	(5)	
	c)	Role of converter and inverter in HVDC.	(5)	
	d)	Synchronous link stability.	(5)	
NO	TE:	Disclosure of Identity by writing Mobile No. or Making of passing request page of Answer Sheet will lead to UMC against the Student.	on any	
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