Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

Year and Program: B.Tech -UG	School of Technology	Department: Electrical Engineering
Course Code: EET 407.1	Course Title: HVDC & FACTS System	Semester :VII
Day : Saturday Date : 26.12.2020	End Semester Examination	Time: 2 Hrs. Max Marks :50

Instructions: 1) All questions arecompulsory.
2) Figures to the right indicate full marks.

		Marks	Bloom's Level	CO
Q.1	**Answer the following (Any Two)**			
a)	Draw schematic diagram of typical two terminal HVDC systems& explain each component shown.	8	L3	CO1
b)	What are the types of DC links? Explain them with neat sketch.	8	L2	CO1
c)	Give the comparison between HVDC and EHVAC transmission systems.	8	L2	CO1
Q.2	**Answer the following (Any Two)**			
a)	Draw and explain intersecting characteristics of rectifier and inverter under normal operating mode.	8	L4	CO2
b)	Explain reversal of power through HVDC link with neat diagram.	8	L3	CO2
c)	Write a short note on insulation coordination.	8	L3	CO3
Q.3	**Answer the following (Any Two)**			
a)	Draw & explain protection against overcurrent in HVDC convertor station.	9	L4	CO3
b)	State causes for generation of harmonics. Also explain problems of harmonics in detail.	9	L3	CO4
c)	What is MTDC System? Explain types of MTDC system in detail.	9	L3	CO4

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