GALGOTIAS UNIVERSITY

ADMISSION NUMBER												

School of Engineering

M.Tech Power System Engineering
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem I - G2PI102T - FACTS and HVDC

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Classify types of DC links.	K2	(2)
2)	Define principle of series compensation.	K1	(3)
3)	Explain Graetz's circuit with diagram.	K2	(4)
4)	Summarize the disadvantages of DC transmission by various factors.	K2	(6)
5)	Identify the difference between series and shunt compensation.	K3	(6)
6)	Construct thyristor controlled reactor and draw its waveforms.	K3	(9)
7)	Classify factors to be considered in planning HVDC Transmission.	K4	(8)
8)	Analyze practical considerations in load compensations.	K4	(12)
	OR		
	Differentiate between active and passive compensators.	K4	(12)