

BALOCHISTAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY KHUZDAR

DEPARTMENT OF ELECTRICAL ENGINEERING

M.E Fourth Semester Examination 2021

	Department:	EED	Examination:	Mid Examination 20	21
	Subject:	Flexible AC Transmission	Code:	EE- 508	
	Max. Marks:	60	Time Allowed:	02(hours):20(minutes)	
	NOTE: ATTEMPT All QUESTIONS				Marks
	(i) What is the meaning of Compensation?				02
	(ii) Explain the Difference between Series and Shunt Compensation.				04
Question No. 1	(iii) Draw the equivalent circuit diagram of Shunt Compensation?				03
	(iv) Draw the Phasor Diagram of Series and Shunt Compensation?				06
	(i) Define STATIC VAR Compensator and its advantages				05
Question No. 2	(ii) Explain the Working Principle of the STATIC VAR Compensator(iii) Draw the circuit diagram and VI characteristics curve of STATIC VAR Compensator				05
110.2					05
	(i) Briefly explain Thyristor Switched Capacitor (TSC)?				05
Question No. 3	(ii) Draw	Draw the basic architecture of TSC?			05
2,000		rite the formula and simple derivation of Thyristor vitched Capacitor (TSC)			05
	(i) Explain the main purpose of Mid Point Voltage Regulation method?				05
	(ii) Draw the Phasor diagram of Mid Point Voltage method				05
	(iii) Fill in the blanks				
	(a) IPFC stands for				05
	(b) TCSC stands for				
	(c) UPFC stands for				
	(d) GUPFC stands for				
	(e) HPFC stands for				