PRN:		Course Code :	ELE403

Final Year B. Tech End Semester Examination Summer 2023

Power Quality

Day and Date: Wednesday, 14/06/2023 Max Marks: **50**

Time : 2.00 to 4.00 PM Duration: **02** hrs.

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt any two from the following**			
	a)	Write short note on ➢ DC offset ➢ Inter-harmonics ➢ Notching ➢ Noise	06	L2	CO1
	b)	Define voltage sag and voltage swell and state the sources of voltage sag & swell.	06	L2	CO1
	c)	Explain transients in power system in detail.	06	L1	CO1
Q.2		**Attempt any two from the following**			
	a)	Define harmonics and state the causes of harmonics.	06	L1	CO2
	b)	Explain the effect of harmonics on capacitors, transformers and motors.	06	L2	CO2
	c)	Write short note on i] THD ii] TDD	06	L2	CO2
Q.3		**Attempt the following**			
	a)	Explain hybrid filters and its different combinations in short.	06	L2	CO3
	b)	Compare active filter and passive filter with their system configuration.	07	L2	CO3
		or			
	b)	Draw and explain UPQC in detail.	07	L2	CO3
Q.4		**Attempt the following**			
	a)	Explain Super Conducting Storage devices in detail.	06	L4	CO4
	b)	Explain construction and working of Dynamic Voltage Restorer.	07	L4	CO4
		or			
	b)	What is mean by Ferro-resonance? Explain Ferro resonant transformer.	07	L2	CO4

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