SEAT No.:	
[Total	No. of Pages : 1

P5160

B.E./Insem.-565 B.E.(Electrical) (Semester - I) POWER QUALITY (2012 Pattern) (Elective - I)

Time : 1 Hour] Instructions to the candidates:		lax. Marks :30	
	1) 2) 3) 4) 5)	Solve Q1 or Q2, Q3 or Q4, Q5 or Q6. Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks. Use of calculator is allowed. Assume suitable data, if necessary.	
Q 1)	a) b)	Define power quality with reference to each stakeholder. Categorize different power quality issues as per IEEE 115	[4] 9 standard.[6]
		OR	
Q2)	a) b)	Discuss in brief symptoms of poor power quality. Discuss power quality issues due to improper grounding.	[5] [5]
Q 3)	a) b)	Differentiate between voltage sag and interruption. What is ITIC curve? Explain its use in power quality.	[5] [5]
		OR	
Q4)	a) b)	Write a short note on the area of vulnerability. Explain voltage sag characteristics - Magnitude, pointiation.	[6] oint on wave [4]
Q5)	a) b)	What is transient? Classify transients. Discuss various causes of voltage flicker.	[6] [4]
		OR	
Q6)	a) b)	Briefly, explain the devices for overvoltage protection. Write a note on computer tools used for transient analysis	[6] s. [4]