Q.P.	Code: 16EE230	KI6
Re	g. No:	
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTU	R
	(AUTONOMOUS)	
	B.Tech IV Year I Semester Supplementary Examinations August-2021 PRINCIPLES OF POWER QUALITY	
	(Electrical and Electronics Engineering)	
Tim		larks: 60
	(Answer all Five Units $5 \times 12 = 60$ Marks)	
	UNIT-I	
1	What is power quality? Why we are concern about power quality?	12M
	OR	
2	Explain about the power quality evaluation procedure.	12M
	UNIT-II	
3	What are the sources of transient over voltages? Explain clearly.	12M
	OR	
4	What are the principles of over voltage protection? Explain with diagram.	12M
	UNIT-III	
5	What is harmonic distortion? Discuss about the voltage versus current distortion.	12M
	OR	
6	Explain the power system quantities under non sinusoidal condition.	12M
	UNIT-IV	
7	Explain the applications for system maintenance, operation and reliability.	12M
	OR	
8	Explain about the permanent power quality monitoring equipment.	12M
	UNIT-V	
9	What is the need for current limiter? Discuss the operation of a Solid state current limiter.	12M
	OR	2

10 What are the advantages of static var compensators? Discuss the operation of Static Series 12M Compensators?

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