Q.P. Code: 16EE225

Reg.	No:	
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR	
(AUTONOMOUS)		
B.Tech III Year II Semester Supplementary Examinations Dec 2019		
SWITCH GEAR AND PROTECTION		
	(Electrical & Electronics Engineering)	
Time:	3 hours Max. Marks: 60	
	(Answer all Five Units $5 \times 12 = 60$ Marks)	
	UNIT-I	
1	•	8M
	ratings and specifications of circuit breaker.	
		4M
	OR	
2		12M
	UNIT-II	
3		12M
	Protection.	
4	OR Write a short note on fellowing:	12M
4	Write a short note on following:  i) Define relay ii) Define amplitude and phase comparator iii) Define primary and back	12111
	-up protection iv) Characteristics of over current relay.	
	UNIT-III	
5		8M
	current system to the protection of alternators.	OIVI
	b What precautions must be taken in installing this system?	<b>4M</b>
	OR	
6	a Discuss the different transformer faults.	7M
	<b>b</b> What are the various protections schemes available for transformers?	5M
	UNIT-IV	
7	a Explain any one bus bar protection scheme in detail.	<b>8M</b>
	<b>b</b> What is back up protection of bus bar?	<b>4M</b>
	OR	
8	a Write short notes on Tran slay scheme.	5M
	<b>b</b> With a neat sketch develop the duplicate bus bar system.	7M
	UNIT-V	
9	a Explain the various methods of over voltage protection of overhead transmission	10M
	lines.	
	<b>b</b> Define switching surges.	2M
	OR	
10		10M
	b What is BIL?	2M

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