## T. E. Electrical VI CBGS Power System Analysis 23.11.16 Q.P. Code: 584504

(3 Hours)

Total Marks: 80

			. 1
N	.B. :	(1) Question No 1 is Compulsory	7
	()	(2) Attempt any three questions out of remaining five questions.	
		(3) Assume the suitable data in necessary and justify the same.	
1,	So	Ive the following questions.	
		(a) What is power invariance in unsymmetrical fault analysis.	_
		(b) Discuss the importance of insulation coordination.	5
		(c) What is the electrical length of line.	5
		(d) Discuss the term transient.	5
		(a) Brocks the term transfert.	5
2.	(a)	Discuss the short circuit of synchronous machine at no load condition.	
	(b)	Discuss the formation of transients on transmission line.	10
		of transferres of transferres for the state of the state	10
3.	(a)	Derive the equation for fault current for LL fault.	1.0
	(b)	Discuss the sequence network for transmission lines.	10
		The state of the s	10
4.	(a)	Discuss the phenomenon of capacitance switching	10
	(b)	Discuss the terms protective characteristics, dynamic voltage rise,	10
		arrestor rating.	10
5.	(a)	Disuses the phenomenon of traveling wave on case of termination of line	10
		as open Circuit.	
	(b)	Explain the terms with reference to corona disruptive critical voltage,	10
		visual critical voltage Power loss	
6.	(a)	Discuss the maximum power transfer and stability consideration in	10
		transmission line.	
	(b)	Discuss the various factors to be considered while constructing the	10
		sequence network of power system.	