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B. Tech. 7th Semester (EE) Examination – May, 2019

COMPUTER APPLICATIONS TO POWER SYSTEM **ANALYSIS**

Paper: EE-409-F

Time: Three Hours] [Maximum Marks: 100 Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt any five questions, selecting at least one question from each Section. Question Number 1. is compulsory. All questions carry equal marks.

- 1. (a) What is Contingency analysis in Power System? 20
 - (b) What is Bus incidence matrix?
 - Discuss Security analysis.
 - (d) What is Ferranti effect?

SECTION - A

- 2. (a) Explain components of Power System. 10
 - (b) Describe Performance of Transmission line. 10

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3.	(a)	Describe Contingency analysis in detail.	10				
	(b)	Discuss growth of power system.	10				
SECTION - B							
4.	(a)	Describe Formulation of Y bus using sing transformation.	ular 10				
	(b)	Explain Gauss Seidal method for Load : Study.	flow 10				
5.	(a)	Explain Decoupled Load flow studies.	10				
	(b)	Describe Load flow study of distribution system	. 10				
SECTION - C							
6.	(a)	Explain Sequence networks for synchron machine.	nous 10				
	(b)	Describe considerations of pre fault currents.	10				
7.	Exp	plain digital techniques in fault calculations.	20				
SECTION - D							
8.	Dis	cuss RTU. Explain SCADA system in detail.	20				
9.	(a)	Discuss energy control centres and various s of power system.	tates 10				
	(b)	Discuss different various MATLAB power syblock.	stem 10				

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