B.Tech. ELECTRICAL ENGINEERING (BTELVI)

Term-End Examination

December, 2013

BIEEE-010: POWER SYSTEM RELIABILITY

Time: 3 hours			Maximum Marks : 70	
Note: Attempt any seven questions. Each question carry equal marks.				
1.	Exp	lain contingency analysis for	interconnectors.	10
2.		at are the different componer lain hazard rate.	nts of reliability?	10
3.	Explain the basic concept of probability theory. What are the rules combining probabilities of event? Explain it.			10
4.	Explain the two systems with Tie - Probability Array Methods.			10
5.	(a) (b)	Explain Rapid Start Unit. Explain Hot Reserve.		7 3
6.	(a) (b)	What is Industrial System How the security fund works?		4 6
7.	Wha	at is Frequency Duration Me	thod ? Explain in	10

- 8. Write the short notes on the following: 2x5=10
 - (a) UC Ricks
 - (b) PJM Method.
- 9. What is Generator System Models and why it is required? Explain the concept of the "Three Phase Modelling",
- 10. How the load transfer effect the power system 10 reliability? Explain it.