BIEEE-010

373	B.Tech. ELECTRICAL ENGINEERING (BTELVI)							
	Term-End Examination December, 2012 BIEEE-010 : POWER SYSTEM RELIABILITY							
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	Time	: 3 F	Hours Maximum Marks	Maximum Marks : 70				
	Note : Attempt any seven questions. All questions carry equal marks. Assume missing data, if any.							
	1.	Defi (a) (b) Hov	ine the following distribution factors : Current injection Line outage v are they used in contingency analysis ?	10				
	2.	Exp	lain contingency analysis for interconnectors.	10				
	3.	Wha why "thr	at is 'modelling of electrical components and v it is required ? Explain the concept of the ee phase modelling".	10				
	4.	Expl of it	lain the term Reliability Indices and give some s examples.	10				
	5.	(a)	What is Variable Reserve and Maximum Peak Load Reserve ?	8				
		(b)	What is Outage Probability ?	2				
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6.	Expl	Explain the Security Function Approach in detail.				
7.	Enumerate different Interruption Indices in the distribution system.					
8.	(a)	Explain the PJM Method.	8			
	(b)	What is a 'Hot Reserve' ?	2			
9.	(a)	Explain the effect of Load Transfer, on distribution system.	5			
	(b)	What is "ORR" Risk ?	5			
10.	Write short notes on <i>any two</i> of the following : 2x5=					
	(a)	State Load Model				

- (b) UC Risks
- (c) Scheduled Outages