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BIEEE-010

B.Tech. - VIEP - ELECTRICAL ENGINEERING (BTELVI)

Term-End Examination

00846

June, 2016

BIEEE-010 : POWER SYSTEM RELIABILITY Time: 3 hours Maximum Marks: 70 **Note:** Attempt any **five** questions. All questions carry equal marks. Discuss in detail the outage probability in 1. (a) power system. What are the various factors affecting the (b) availability and unavailability of units in power systems? 7 Explain the different factors affecting the 2. (a) emergency assistance available through 7 interconnections. Explain the multi-connected system for the (b) interconnected power system. 7 P.T.O. BIEEE-010 1

	(a)	Explain all limiting factors which are affecting the generating capacity of power system.	7
	(b)	Discuss the techniques adopted in power system for Capacity Expansion Analysis.	7
4.	(a)	Describe the security function approach for the rapid start of generating units in power systems.	7
	(b)	Explain "Hot Reserve" in a power system.	7
5.	_	ain in detail the various basic evaluation niques for a radial distribution system.	14
6.	(a)	What are the advantages and disadvantages of interconnecting conventional and non-conventional energy	
		resources?	7
	(b)		7
7.	Write	resources? Explain the Frequency Duration Method and its application in power system.	7
7.	Write	resources? Explain the Frequency Duration Method and its application in power system. e short notes on any <i>two</i> of the	7
7.	Write	resources? Explain the Frequency Duration Method and its application in power system. e short notes on any two of the wing: 2×7=	7