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BIEEE-008

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

Term-End Examination June, 2014

BIEEE-008: FLEXIBLE AC TRANSMISSION SYSTEM

Time: 3 hours		Maximum Marks	Maximum Marks : 70	
Note: Attempt any seven questions. All questions carry equal marks. Assume missing data, if any.				
1.	Describe the method of the series compensation	phase angle control for of transmission line.	10	
2.		of TSC as a FACTS h between the features //C and STATCOM.	10	
3.	-	iple of P and Q control? independent real power	10	
4.	Enumerate various s controllers. Also explain	pecial purpose FACTS any one of them.	10	
5.	Describe the following in	n brief :	10	
	(a) Thyristor controlled	d voltage limiter		
	(b) Thyristor controlled	d voltage regulator		
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6.	Write in detail on any <i>two</i> of the following:	
	(a) STS	
	(b) SSC	
	(c) SVR	
7.	Distinguish between SSSC and UPFC with reference to their principle of operation and applications.	
8.	Define FACTS. Also explain the interline power flow controller.	
9.	Briefly describe the operation of TCVR as a FACTS device.	
10.	Discuss the benefits of FACTS Transmission line compensation. Explain the operation and control of TCPAR.	