Sea	ıt No.:	Enrolment No		
		GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER IV (NEW) – • EXAMINATION – WINTER 2016		
Subject Code: 2740702 Date			16	
Subject Name: Power System Restructuring Time:02:30 pm to 05:00 pm Instructions: Total Ma			arks: 70	
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Why should there be competition in electrical power industry? Discuss various models of competition in electrical power industry in brief.	07 07	
Q.2	(a) (b)	What are major changes required for deregulating electrical power industry? What is elasticity in demand with respect to consumer behavior in electrical power industry? Discuss in brief consumer-supplier behavior in electrical power industry.	07 07	
	(b)	OR Discuss deregulation process of electrical power industry mentioning its advantages.	07	
Q.3	(a)(b)	What is security in terms of electrical power system? Why is it important to have secure power system? Discuss factors affecting it. Discuss transmission line congestion and its impact on electrical power industry.	07 07	
Q.3	(a) (b)	OR What is ATC and TTC? Discuss in brief. Explain any one congestion management method in detail	07 07	
Q.4	(a) (b)	Discuss any one method of calculation of ATC. List ancillary services required to maintain secure power system operation. Discuss them in brief.	07 07	
Q.4	(a) (b)	OR What are the ways to obtain ancillary services? Discuss any one. What are stability services? What services are required for system restoration?	07 07	
Q.5	(a)	How to make electrical power industry perfectly competitive? Discuss in brief each attribute for it.	07	
	(b)	Discuss "Generation capacity" from consumer's perspective in deregulated market OR	07	
Q.5	(a)	What are the issues related to transmission pricing in decentralized trading over	07	

(b) Write a short note on status of deregulation in Electrical power industry in

transmission network?

India.

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