## **GUJARAT TECHNOLOGICAL UNIVERSITY** ME – SEMESTER IV (NEW) – • EXAMINATION – SUMMER 2016

ME – SEMESTER IV (NEW) – • EXAMINATION – SUMMER 2016			
Subject Code: 2740702Date:04/05/Subject Name: Power System RestructuringTotal MarkTime:10:30 am to 01:00 pmTotal Mark			16
			s: 70
Inst	2.	. Attempt all questions.	
Q.1	(a) (b)	What is the need of restructuring electrical power industry? What is deregulation of electrical power industry? List its benifits	07 07
Q.2	(a) (b)	Discuss monopoly model and single buyer model for market competitiveness. Explain law of diminishing marginal utility. <b>OR</b>	07 07
	<b>(b)</b>	Discuss wholesale competition model and retail competition model	07
Q.3	(a) (b)	What is transmission congestion? What are its impact on electricity market Define ATC, TTC, TRM, CBM and explain any one in detail <b>OR</b>	07 07
Q.3	(a) (b)	Classify congestion management methods Discuss principles governing ATC determination.	07 07
Q.4	(a) (b)	Discuss ATC calculation using DC model. What are ancillary services? Explain their need in deregulated market. <b>OR</b>	07 07
Q.4	(a) (b)	Discuss factors affecting compulsory provision of ancillary services. Write a short note on "voltage control and reactive support services"	07 07
Q.5	(a) (b)	Discuss problems with physical transmission rights in deregulated market Discuss "Generation capacity" from producer's perspective in deregulated market	07 07
Q.5	(a)	<b>OR</b> Explain attributes of a perfectly competitive market for electrical power industry	07
	(h)	Write a short note on status of deregulation in Electrical power industry	07

(b) Write a short note on status of deregulation in Electrical power industry 07

\*\*\*\*\*