GUJARAT TECHNOLOGICAL UNIVERSITY ME- SEMESTER II– EXAMINATION – SUMMER 2015

Subject Code: 2720725 Date: 03/ Subject Name: Economics of Energy Generation & Supply			6/2015	
Tir	Time: 2:30 PM - 5:00 PMTotal Marks:			
Instructions: 1. Attempt all questions.				
	2. 3.	Make suitable assumptions wherever necessary.		
Q.1	(a)	Explain the descriptive analysis approach for energy demand analysis and its indicators.	07	
	(b)	Explain the Econometric approach for energy demand forecasting and difficulties associated with it.	07	
Q.2	(a) (b)	What do you mean by End Use Method of forecasting? Explain its features. Explain three stage decision making process on energy demand.	07 07	
	(b)	OR Define energy security and its indicators.	07	
Q.3	(a)	Define DSM. How it is justified?	07	
	(b)	Define load management and explain load management options. OR	07	
Q.3	(a)	What do you mean by energy efficiency? How the energy can be saved in lighting, space heating and appliance efficiency and usage.	07	
	(b)	Explain Participant Test and Rate Payer Impact Measure in concern with cost effectiveness of DSM.	07	
Q.4	(a)	Define Diversity Factor, Load Factor, Capacity Factor and Load Curve. Give	07	
	(b)	its importance with respect to economics of electricity supply. Explain Merit Order Dispatch and Incremental cost Method. OR	07	
Q.4	(a)	Define generation capacity reserve. Explain spinning reserve and quick start reserve.	07	
	(b)	Explain Levelised Bus óBar cost method for meeting the future demand.	07	
Q.5	(a)	Give the classification of Crude Oil, Natural Gas and Coal and explain the activities related with its production.	07	
	(b)	What do you mean by supply forecasting in relation with Economics of fossil fuel supply.	07	
OR CONTRACTOR OR CONTRACTOR			• -	
Q.5	(a) (b)	Explain various technologies of Renewable Energy Generation. Discuss various drivers of Renewable Energy.	07 07	
