GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER- II(New course) • EXAMINATION (Remedial) - WINTER- 2015

Subject Name: Economics of Energy Generation & Supply			Date: 14/12/2015 Total Marks: 70
		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	 Define following terms. (i) Diversity factor (ii) Load factor (iii) Plant Capacity factor (iv) Plant use factor (v) Demand factor (vi) Max. demand (vii) Compared to the second se	07 onnected load
	(b)	Explain load curve. Give its important.	07
Q.2	(a)	Explain the econometric approach for energy demand forecasting a associated with it.	and difficulties 07
	(b)	Explain base and peak load on power station. OR	07
	(b)	Explain energy security.	07
Q.3	(a) (b)	Explain three stage decision making process on energy demand. Explain different energy demand forecasting techniques. OR	07 07
Q.3	(a) (b)	Explain direct & indirect load control. Explain demand-side management	07 07
Q.4	(a) (b)	Explain supply forecasting. What do you mean by End use method of forecasting? Explain its OR	features. 07
Q.4	(a) (b)	Explain Economic Dispatch. Explain Unit Commitment.	07 07
Q.5	(a) (b)	Explain various technologies of Renewable Energy Generation. Explain Incremental cost method. OR	07 07
Q.5	(a) (b)	OR Discuss various drivers of Renewable Energy. Define hot reserve, cold reserve, quick start reserve and spinning	ng reserve. 07
