Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – I • EXAMINATION – WINTER • 2013

Subject code: 710706N Subject Name: Energy Management Time: 10.30 am – 01.00 pm			Date: 30-12-2013	
		S. S.	Total Marks: 70	
Instr	1. 2.	ions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	What is the principle of energy management? Why managerial skills are important as technical skills in energy management	07	
	(b)	Explain energy efficient motors. Also write advantages of energy efficient motors.	07	
Q.2	(a)	Suggest steps for minimization of losses in boiler or air condition system	07	
	(b)	•	07	
	(b)	Explain energy saving in transportation system.	07	
Q.3	(a) (b)	•	07 07	
Q.3	(a) (b)		07 07	
Q.4	(a) (b)	1 1 2	07 07	
Q.4	(a) (b)		07 07	
Q.5		Which are the tools for energy audit? Explain their purposes also. Explain detailed energy audit (DEA) with sample data sheet of transformers, motive load, compressed air system, refrigeration system, cooling towers, and pumping system. OR	07 07	
Q.5	(a) (b)	Discuss the importance of Variable frequency drive in saving energy.	07 07	
