GUJARAT TECHNOLOGICAL UNIVERSITY

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

	•	Code: 2721008 Date: 14/12/20 Name: Energy Economics & management	Date: 14/12/2015	
Time:2:30 pm to 5:00 pm Total Ma Instructions:			arks: 70	
		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Discuss the current energy scenario of India. Discuss principles and need of energy management.	07 07	
Q.2	(a) (b)	Explain various methods to find the furnace efficiency. Write short note on present worth analysis. OR	07 07	
	(b)	Explain method of calculating payback period.	07	
Q.3	(a) (b)	Explain cumulative and life cycle savings. Write short note on energy security.	07 07	
Q.3	(a) (b)	Discuss the sources of waste heat and its potential applications. Make comparision between Internal Rate of Return and Net Present Value method.	07 07	
Q.4	(a) (b)	With a neat sketch explain gas turbine co-generation plant. Write short note on solar energy applications. OR	07 07	
Q.4	(a) (b)	Give tips for energy saving in pumps. Give tips for energy saving in compressed air systems.	07 07	
Q.5	(a) (b)	Explain energy cost and energy performance. Give energy saving measures in lighting systems. OR	07 07	
Q.5	(a) (b)	Give tips for energy saving in steam systems. Give tips for energy saving in refrigerator and air conditioners.	07 07	
