Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – I • EXAMINATION – SUMMER • 2014

Subject code: 713901N **Date: 13-06-2014**

Subject Name: Energy Resources, Economics and Environment

Time: 02:30 pm - 05:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q-1	(a)Write a Short note on Wind Energy Development in India.	**07**
	(b) List Different types of Green house gases and discuss its Effects.	**07**
Q-2	(a) Explain Return on investment (ROI) method for Energy, Economics with Suitable Examples.	**07**
	(b) Explain Benefits and barriers of wind energy Technology.	**07**
	OR	
	(b) Explain Waste Disposal method for Nuclear radioactive material.	**07**
Q-3	(a) Give the Difference between Water tube and fire tube Boilers.	**07**
	(b) Write a short note on Ocean thermal Energy Conservation (OTEC).	**07**
	OR	
Q-3	(a) Write a short note on Combine Cycle Power plant.	**07**
	(b) Discuss Different types of Pollutants for thermal Power Plant and Explain methods to utilize it.	**07**
Q-4	(a) Explain Salient Features of Electricity Act 2003.	**07**
	(b) Write a short note on Biomass gasifires.	**07**
	OR	
Q-4	(a) Explain Salient Features of Energy Conservation Act 2001.	**07**
	(b) Define Energy Security. Give your Suggestions to achieve energy Security.	**07**
Q-5	(a) Explain Effects of human activities on Environment and Ecology.	**07**
	(b) Write a Short note on Global Energy issues. Also Discuss national and State level Energy issues in India.	**07**
	OR	
Q-5	(a) Give ઔિSuggestions to Prevent Environment Pollution.	**07**
	(b) Write a short note on waste Disposal.	**07**

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