

GUJARAT TECHNOLOGICAL UNIVERSITY
ME - SEMESTER– II • EXAMINATION – SUMMER 2017

Subject Code: 2723007**Date:31/05/2017****Subject Name: Energy Technology****Time:02:30 PM to 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 Energy and Environmental policies. **07**
(b) Explain Wind Energy Collectors. **07**
- Q.2** (a) Explain ten steps Methodology for detailed Energy audit. **07**
(b) Give the classification of Energy Sources with their example. **07**
- OR**
- (b) Give the classification of Solid Fuels. **07**
- Q.3** (a) Write a short note on Properties of Coal. **07**
(b) Define Solar Energy Collector. Give its classification and explain any one. **07**
- OR**
- Q.3** (a) Explain Solar Electrical Energy Storage System. **07**
(b) Describe with a neat sketch the working of Wind Energy Conversion System (WECS) with main components. **07**
- Q.4** (a) Explain Fossil Fuel Cell. **07**
(b) Write a short note on Safety & Management for Hydrogen. **07**
- OR**
- Q.4** (a) Explain Thermo Chemical Method for Hydrogen. **07**
(b) Explain Molten Carbonate Cell. **07**
- Q.5** (a) Explain principle of MHD Generation. Also explain its Open Cycle system. **07**
(b) Explain Properties & Utilization of Biogas **07**
- OR**
- Q.5** (a) Explain Reprocessing and Waste Disposal for Nuclear Fuel. **07**
(b) Explain Design problems MHD Generation. **07**
