

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – SUMMER 2013****Subject Code: 162905****Date: 30-05-2013****Subject Name: Energy Conservation and Pollution Control in Textile****Industry****Time: 10.30 am - 01.00 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) Explain in detail - Why energy conservation is required? **07**
(b) Discuss about Energy scene in India. **07**

- Q.2** (a) Write brief note on Designing an audit. **07**
(b) What are National demand and Industrial demand of energy? Discuss in brief. **07**

OR

- (b) Write in detail about Motor efficiency and Power consumption. **07**

- Q.3** (a) Explain in detail about Financial incentives for energy. **07**
(b) Discuss different parameters to conserve energy in Wet processing. **07**

OR

- Q.3** (a) Define - Waste Heat Recovery systems. Explain any one WHR system in detail. **07**
(b) Describe in detail energy conservation in Sizing. **07**

- Q.4** (a) Write different ways to conserve energy in Lighting. **07**
(b) Explain in detail about Energy conservation in Humidification. **07**

OR

- Q.4** (a) Write a brief note on Disposal of Waste water. **07**
Q.4 (b) Discuss Hazardous waste and its generation. **07**

- Q.5** (a) Write briefly about various types of pollution in textile industry. **07**
(b) State various types of Air pollution control equipments. Discuss any one in detail. **07**

OR

- Q.5** (a) Write major operations causing excessive Water pollution. **07**
(b) Explain in detail about effect of noise on weavers. **07**
