

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014

Subject Code: 162905**Date: 26-05-2014****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** Discuss how water pollution can be reduced in textile industry with specific reference to recovery of chemicals, modification in operation , process changes, segregation and neutralization and minimizing the leakage **14**
- Q.2** (a) Explain in detail energy audit. **07**
(b) Discuss the scope of energy conservation in ring frame. **07**
OR
(b) Explain in detail energy management. **07**
- Q.3** (a) “Energy conservation is a prime concern in today’s context” explain. Give your suggestions for energy saving and production. **07**
(b) Write notes on foam sizing. **07**
OR
- Q.3** (a) Write notes on solvent sizing. **07**
(b) Explain waste heat recovery system. **07**
- Q.4** (a) Discuss the scene of energy in India. **07**
(b) Explain air pollution with its causes. **07**
OR
- Q.4** (a) What is the noise level of various key departments? What measures to be taken to control noise level in weaving? **07**
(b) Discuss how proper humidification and energy efficient lighting measures can lead to energy conservation. **07**
- Q.5** (a) Explain about effluent treatment plant of a textile mill. **07**
(b) Discuss measures to control air pollution in textile industry. **07**
OR
- Q.5** (a) Show the break up of ring frame power. **07**
(b) Discuss in detail energy conservation in ring frame with specific reference to tin roller. **07**
