

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - VIIth Semester–Examination – May/June- 2012****Subject code: 171304****Subject Name: Cleaner Production And Waste Utilization****Date: 29/05/2012****Time: 02:30 – 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) What is cleaner production? How it is useful in Industry? **07**

(b) Discuss six step methodology for CP. **07**

Q.2 (a) What is Good house keeping? Discuss in detail. **07**

(b) Enlist and Explain checklist for good housekeeping. **07**

OR

(b) Discuss CP option with respect to chemical industry. **07**

Q.3 (a) Write short note on Energy Audit. **07**

(b) Discuss the concept of 3 R's. **07**

OR

Q.3 (a) Write a short note on reuse of solid industrial waste. **07**

(b) Write a short note on reuse of liquid industrial effluent. **07**

Q.4 (a) Write short note on bio management for waste utilization. **07**

(b) Write a short note on recycling of liquid industrial effluent. **07**

OR

Q.4 (a) Write a short note on recycling of solid industrial waste. **07**

(b) Write short note on generation of waste heat in industry. **07**

Q.5 (a) Discuss types of heat recovery equipments. **07**

(b) Discuss heat recovery boiler in detail. **07**

OR

Q.5 (a) Discuss financial analysis in cleaner production. **07**

(b) How heat recovery is useful in cleaner production. **07**
