

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII • EXAMINATION – WINTER 2013

Subject Code: 171304**Date: 03-12-2013****Subject Name: Cleaner Production and Waste Utilization****Time: 10:30 TO 01:00****Total Marks: 70****Instructions:**

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

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| Q.1 | (a) | Explain Importance of CP in Industries. | 07 |
| | (b) | Write a short note on Good Housekeeping. | 07 |
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| Q.2 | (a) | Enlist the Benefits of Good housekeeping. | 07 |
| | (b) | Enlist and Explain checklist for good housekeeping. | 07 |
| OR | | | |
| | (b) | Discuss CP options in chemical industry. | 07 |
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| Q.3 | (a) | Write short note on Energy Audit. | 07 |
| | (b) | Discuss the hierarchy of CP. | 07 |
| OR | | | |
| Q.3 | (a) | Write a short note on Waste Minimization with respect to CP. | 07 |
| | (b) | Write a short note on reuse of liquid industrial effluent. | 07 |
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| Q.4 | (a) | Write short note on Heat exchangers. | 07 |
| | (b) | Explain Heat recovery Boiler with One Stack. | 07 |
| OR | | | |
| Q.4 | (a) | How Energy management useful in CP. | 07 |
| Q.4 | (b) | Write short note on generation of waste heat in industry. | 07 |
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| 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) | Explain Heat recovery Boiler with Two Stack with fan. | 07 |
