| Seat No.: | Enrolment No. |
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Subject code: 171304

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER - VII • EXAMINATION - WINTER 2012

Date: 28/12/2012

| Subj | ect N | lame: Cleaner Production and Waste Utilization | |
|-------|--------------|--|------------|
| Гimе | e: 10. | 30 am - 01.00 pm Total Marks: 7 | ' 0 |
| Instr | ucti | | |
| | 2. I | Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. | |
| Q.1 | (a) (b) | Define Cleaner Production and highlight its benefits Discuss the importance of Heat Recovery from flue gases along with methods available. | 07 07 |
| Q.2 | (a) (b) | Write a short note on "Good Housekeeping" Discuss Cleaner Production practices. | 07 07 |
| | (D) | OR | 07 |
| | (b) | Write a short note on "Recycling and reuse of effluent from Textile unit. | 07 |
| Q.3 | (a) (b) | Explain the application of CP in a Thermal Power Plant Explain the concept of 'Recycle' and 'Reuse' highlighting the difference between the two. | 07 07 |
| | | OR | |
| Q.3 | (a) (b) | Explain the application of CP in a Dairy industry What do you mean by Energy Audit? Explain the importance of Energy Audit. | 07 07 |
| Q.4 | (a) (b) | Enlist the methods of Energy Audit. Explain any one in detail. Write a short note on Recycle in and reuse of effluents from textile units OR | 07 07 |
| Q.4 | (a) | Enlist various treatment options available for facilitating reuse of wastewater. Also enlist various reuse applications of wastewater. | 07 |
| Q.4 | (b) | Write a short note on Recycling and reuse of dairy effluent. | 07 |
| Q.5 | (a) (b) | Enlist the types of heat recovery boilers and write a note on any one. Explain the shell and tube heat exchanger. OR | 07 07 |
| Q.5 | (a) (b) | Explain the sequential methodology for Cleaner production. Explain the measures for Good Housekeeping in a Pharmaceutical industry. | 07 07 |
