

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEM-VII Examination-Nov/Dec.-2011

Subject code: 171302

Date: 22/11/2011

Subject Name: Air Pollution Control and management

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) Discuss Air Pollution Control equipment selection criteria. | 07 |
| | (b) Enlist advantages and disadvantages of cyclone separator. | 07 |
| Q.2 | (a) Write short note on scrubber. | 07 |
| | (b) Explain functioning of cyclone separator with diagram | 07 |
| | OR | |
| | (b) Discuss bag filter cleaning mechanism in detail. | 07 |
| Q.3 | (a) Discuss alternative fuels to reduce air pollution due to automobile. | 07 |
| | (b) Discuss ambient air quality standard. | 07 |
| | OR | |
| Q.3 | (a) Write short note on Photochemical Oxidant. | 07 |
| | (b) Write short note on Gravity settler. | 07 |
| Q.4 | (a) Explain bag filter with diagram. | 07 |
| | (b) Discuss A/F ratio in detail.. | 07 |
| | OR | |
| Q.4 | (a) How engine design changes to reduce automobile pollution? | 07 |
| | (b) Discuss combustion control methods for NO _x . | 07 |
| Q.5 | (a) Discuss advantages and disadvantages of ESP. | 07 |
| | (b) "Air pollution control Management" Discuss in detail. | 07 |
| | OR | |
| Q.5 | (a) Discuss single alkali method for scrubbing sulfur dioxide. | 07 |
| | (b) Write short note on ambient air quality in metrocity. | 07 |
-