

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**
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