

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

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

**Subject code: 151305**

**Date: 03/12/2011**

**Subject Name: Air Pollution and Control**

**Time: 2.30 pm -5.00 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) Explain Absorption and Dispersion along with examples. **07**  
(b) Explain effect of Air pollution on materials in details. **07**
- Q.2** (a) Explain effects of particulate matter and carbon monoxide on health. **07**  
(b) Explain classification of air pollutant based on sources. **07**
- OR**
- (b) Explain general characteristics of plumes. **07**
- Q.3** (a) Explain wind rose turbulence. **07**  
(b) Explain control of nitrogen oxide with catalytic reduction. **07**
- OR**
- Q.3** (a) Explain construction and working of electrostatic precipitators. **07**  
(b) Explain merits and demerits of cyclone separator. **07**
- Q.4** (a) Write short note on noise pollution and its control. **07**  
(b) Explain causes and control of Odour. **07**
- OR**
- Q.4** (a) Explain effects of Photochemical Smog. **07**  
(b) Explain heat island effect. **07**
- Q.5** (a) Explain in brief global circulation of pollutants. **07**  
(b) List emission control methods in automobile and explain any one of them. **07**
- OR**
- Q.5** (a) Explain advantages of using CNG as automotive fuel. **07**  
(b) Explain effect of air fuel ratio on pollution of automobile. **07**

\*\*\*\*\*