

Seat No. _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER– V (OLD) - EXAMINATION – WINTER 2017

Subject Code: 151305**Date: 30-11-2017****Subject Name: Air Pollution & Control****Time: 10:30 am to 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) Give the brief classification of Air Pollutants based on sources. 07
(b) Briefly describe the history of Different Air Pollution Episodes held till now. 07
- Q-2** (a) What are the ill effects of CO on human health, vegetation, Plants & property? 07
(b) Write a short note on Alternative Fuel. 07
- OR
- (b) Write a short note on Emission reduction by Engine design changes. 07
- Q-3** (a) Explain A/F ratio in detail. 07
(b) Explain heat island effect. 07
- OR
- Q-3** (a) Write a short note on (1) Exhaust Emission (2) Crank-case emission. 07
(b) What is Maximum Mixing Depth? How it is determine? What is its importance? 07
- Q-4** (a) With a neat sketch Explain the principle, Construction & working of ESP. 07
(b) Discuss the Combustion Control methods for Nox. 07
- OR
- Q-4** (a) With a neat sketch Explain the principle, Construction & working of Cyclone Separator. 07
(b) Write a Brief note on double alkali Scrubbing. 07
- Q-5** (a) What is Noise pollution? Describe sources of Noise Pollution. 07
(b) Define Wind rose. Explain the importance of Wind rose in air pollution study. 07
- OR
- Q-5** (a) Explain the Causes & Control of Odour Problem. 07
(b) Write detailed note on Plume Behavior. 07
