

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014

Subject Code: 161302

Date: 21-05-2014

Subject Name: Fundamentals of Air Pollution

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) Give the Classification of Air Pollutants and Sources of Air Pollution. **07**
(b) Describe the History of Different Air Pollution Episodes Held till now. **07**
- Q-2** (a) Explain Wind Rose Diagram with Examples, Enlist its Application. **07**
(b) What is MMD? Discuss in detail. **07**
- OR**
- (b) Write a short note on Stability Condition. **07**
- Q-3** (a) What is Laps Rate? Derive the Laps Rate. **07**
(b) List the important Meteorological parameter that influencing Air Pollution & Explain any one in Detail. **07**
- OR**
- Q-3** (a) Explain the General Characteristic of Plumes. **07**
(b) Write a Short note on Heat Island Effect. **07**
- Q-4** (a) Write Down the Factors Affecting Meteorological Condition? **07**
(b) Write Down the Effect of Sox, Nox, & CO on Human Health. **07**
- OR**
- Q-4** (a) Write a Short note on Temperature inversion. **07**
(b) What is Isokinetic Sampling? Discuss in Detail. **07**
- Q-5** (a) Write a Short note on Noise Pollution & its Control. **07**
(b) Write a Short note on High volume Sampler. **07**
- OR**
- Q-5** (a) What are the sources of Odour? Discuss control measures. **07**
(b) Explain in brief PM, RSPM and SPM. **07**
