

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- VIth SEMESTER–EXAMINATION – MAY- 2012****Subject code: 161302****Date: 11/05/2012****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) Classification of Air pollutants. Explain in brief. **07**
(b) Write down effects of SO₂, NO_x and CO on human health. **07**
- Q.2** (a) Derive lapse rate dt/dz . **07**
(b) Write short note on Wind Rose Diagram. **07**
OR
(b) Write down factors affecting Meteorological condition? **07**
- Q.3** (a) Discuss different types of Plume behavior. **07**
(b) Write note on Iso-Kinetic Condition. **07**
OR
- Q.3** (a) Enlist Three stability conditions and explain any one in detail. **07**
(b) Effect of SO₂ on vegetation and buildings. **07**
- Q.4** (a) Define Odor and Enlist sources of odor. **07**
(b) What is Noise? What are its effects on Humans? **07**
OR
- Q.4** (a) Control methods of Odor. **07**
(b) Explain following terms: **07**
1. Smog 2. Smoke 3. Dust 4. Mist
- Q.5** (a) What is Air Pollution? Classify generation points of Air pollution. **07**
(b) Write short note on High Volume Air Sampler. **07**
OR
- Q.5** (a) Explain in brief PM, RSPM and SPM. **07**
(b) Calculate no of Sampling point if Diameter of Stack is 2 m. **07**
