



**RAN-1097**

**T.Y.B.Sc. (Environmental Science) Semester - V Examination**

**March / April - 2019**

**Air Pollution and Control**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**સૂચના : / Instructions**

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

**T.Y.B.Sc. (Environmental Science) Semester - V**

Name of the Subject :

**Air Pollution and Control**

Subject Code No.:

**1 0 9 7**

Seat No.:

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Student's Signature

**Instructions:**

1. Figures to the right indicate full marks of the question.
2. Draw neat and labeled diagrams whenever necessary.

**Q.1 Give specific answers of the following:**

**12**

- 1 What are secondary pollutants? Explain with examples.
- 2 Write about the various particulate matter present in the air.
- 3 Justify the presence of carbon dioxide in the air.
- 4 What are the major sources of  $\text{NO}_x$  in the air?
- 5 Give the need and importance of Montreal Protocol.
- 6 Discuss the effect of wind direction on air pollution.

**Q.2 Explain the following: (Any Two)**

**12**

- 1 Methods used to measure SPM and RSPM in air.
- 2 Absorption and adsorption methods used for sampling of gaseous pollutants.
- 3 Man made sources of air pollution.

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**[ 1 ]**

**[ P.T.O. ]**

**Q.3      Explain the following : (Any Two)      16**

- 1 Causes of ozone depletion and its control measures.
- 2 Working, merits and demerits of cyclones for control of particulate matter in the gaseous effluents along with a neat sketch.
- 3 Furnace and catalytic combustion for control of gaseous contaminants.

**Q.4      Write Short Notes on following: (Any Two)      10**

- 1 Justify: Air pollution damages materials
  - 2 Causes of El Niño
  - 3 Air pollution accidents at Seveso and Chernobyl
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