



# RAN-1097

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

March / April - 2019

### Air Pollution and Control

Time: 2 Hours ]

[ Total Marks: 50

#### सूचना : / Instructions

नीचे दृष्टविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.  
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.

**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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