

**A-581**

**Total Pages : 3**

**Roll No. -----**

**ESC-601**

**Air Pollution and Control Technologies-I**

**M.Sc. Environmental Science (MSCES)**

**3<sup>rd</sup> Semester, Examination 2024 (June)**

Time: 2:00 hrs

Max. Marks: 35

Note : This paper is of Thirty five (35) marks divided into Two (02) Section A and B. Attempt the questions contained in these sections according to the detailed given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

**Section-A (Long-Answer-Type Questions)**

Note : Section 'A' contains Five (05) long-answer-type questions of Nine and Half (9.5) marks each. Learners are required to answer any Two (02) questions only.

[2x9.5=19]

P.T.O.

- Q.1. What is meant by stratification of atmosphere? Discuss in detail.
- Q.2. Write an extended note on global warming.
- Q.3. Which layer of the atmosphere has abundance of ozone? Discuss the importance of ozone and its depletion mechanism.
- Q.4. What is smog? Discuss various types, formation mechanism of smog and also discuss its harmful effects.
- Q.5. Write an extended note on pollution and human health.

### **Section-B (Short-Answer-Type Questions)**

Note : Section 'B' contains Eight (08) short-answer-type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only.

[4x4=16]

Briefly discuss the following:

- Q.1. Impact of Sulphur dioxide on human, vegetation and material.
- Q.2. Impact of nitrogen oxides on human, vegetation and material.
- Q.3. AIR (prevention and control of pollution) Act, 1981.
- Q.4. National Ambient Air Quality Standards.

- Q.5. Indoor Air Pollution.
- Q.6. Temperature Lapse and Temperature Inversion.
- Q.7. Limitations of Gaussian Plume Model.
- Q.8. Control measures of air emissions at source.

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