

S-1175

Total Pages : 3

Roll No.

ES-551

Air Pollution and Control Technologies

M.Sc. Environmental Science (MSCES)

2nd Year Examination, 2022 (Dec.)

Time : 2 Hours]

Max. Marks : 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Define Air pollution? How air pollutants are classified? Discuss in detail.

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[P.T.O.]

2. Define Atmosphere. What are the different layers of the atmosphere based on the temperature structure? Discuss in detail.
3. What is indoor air pollution? List the important sources of indoor air pollutants? Discuss about the health effects from indoor air pollutants.
4. Define Sound? When does it become noise? Explain with an example and discuss about the characteristics of sound.
5. Describe the term photochemical smog and its effects. Explain the adverse effects of smog on plants and materials.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Write a brief note on the UNEP's efforts to protect ozone layer.
2. What is stratospheric ozone depletion ? Explain the impacts of ozone depletion on human health.

3. What are the secondary air pollutants? List them and mention briefly the impacts on humans and materials.
 4. Briefly describe Air (Prevention and control of pollution) Act, 1981.
 5. Describe the temperature lapse rates in the atmosphere.
 6. What are vehicular emission factors? Discuss types and sources of vehicular pollution.
 7. What are thermal power plants? Discuss environmental impacts of thermal power plants.
 8. Discuss in detail about the steel industry. What are the major steps involved in steel making?
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