

A-578

Total Pages : 3

Roll No.

EVS-605

ATMOSPHERE AND CLIMATE CHANGE

M.Sc. Environmental Science (MSCES)

4th Semester Examination, 2024 (June)

Time : 2:00 Hrs.

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. *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 2×19=38

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.

Q. 1. Define Climate Change. Describe the impacts of climate change with suitable examples.

A-578/EVS-605 (1)

P.T.O.

- Q. 2. Write short notes on any *three* of the following :
- (a) Gaia hypothesis
 - (b) Air-sea interaction
 - (c) Global Energy Balance
 - (d) Natural climate change
- Q. 3. Describe the basic properties, movement in the atmosphere at global, regional and local scale of the atmosphere.
- Q. 4. Describe the impact of anthropogenic activities on climate with suitable examples.
- Q. 5. Describe the effects of climate change on species distribution, extinction risk, spread of diseases and productivity in a forest ecosystem.

Section–B

Short Answer Type Questions 4×8=32

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.

- Q. 1. Write short notes on any *two* of the following :
- (a) Greenhouse gases and greenhouse effects
 - (b) Southern oscillations and cyclones
 - (c) Global warming
 - (d) Kyoto protocol

- Q. 2. Describe the Wind stability and turbulence.
- Q. 3. Describe the energy balance of atmosphere.
- Q. 4. Describe the classification and variability of climate change.
- Q. 5. What are Glacial Cycles ? Briefly describe them.
- Q. 6. What are tree rings ? Briefly describe the importance of tree rings.
- Q. 7. What is Global Warming ? Describe the role of greenhouse gases on global warming.
- Q. 8. What are the major Indian initiatives on climate ? Briefly describe them.
