

Bachelor of Science (B.Sc.) Semester—I Examination**ENVIRONMENTAL SCIENCE****(Fundamentals of Environmental Science)****Optional Paper—1**

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Illustrate your answer with suitable example and diagram.

1. What is Environment ? Describe the segments of environment and the interactions between them. 10

OR

- (a) Discuss briefly the various aspects of Environmental Science. 5
- (b) What are the prime objectives of Environmental Education ? 5
2. Explain the different regions of the atmosphere with respect to temperature. Add a note on significance of every region. 10

OR

- (a) Discuss briefly the mechanism of ozone layer depletion. 5
- (b) What is the composition of atmosphere ? Explain chemical species and particulates in the atmosphere. 5
3. What are Clouds ? Mention various categories of clouds. Explain the role of clouds in weather forecasting. 10

OR

- (a) What is condensation ? Discuss various forms of condensation. 5
- (b) Explain the formation of smog in the atmosphere. 5
4. Describe in detail the secondary meteorological parameters. 10

OR

- (a) Write the procedure for measurement of solar constant. 5
- (b) How plotting of wind patterns is helpful in meteorological studies ? 5
5. Answer in **2-3** lines (any **TEN**) :
 - (a) On which day, we are celebrating World Ozone Day ?
 - (b) What is anthropogenic environment ?
 - (c) What are the objectives of Environmental Education ?
 - (d) Define Environmental lapse rate.
 - (e) What is Dobson unit ?
 - (f) Name ozone depleting substances.
 - (g) Mention the steps of hydrological cycle.
 - (h) Give the classification of fog according to visibility.
 - (i) Define Mist.
 - (j) Distinguish between Relative humidity and Absolute humidity.
 - (k) What is the unit of Wind Velocity ?
 - (l) Name the instrument used for measurement of Wind Velocity. 1×10=10