

**KNT/KW/16/5061**

**Bachelor of Science (B.Sc.) Semester-I (C.B.S.) Examination**  
**ENVIRONMENTAL SCIENCE (Fundamentals of Environmental Science)**  
**Compulsory 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 examples and diagrams.

1. The layers of the atmosphere are of vital importance to the environmental scientist. Express your views. 10

**OR**

- (a) What are the objectives of environmental education ? 5  
 (b) Distinguish between natural and anthropogenic environment. 5

2. Discuss the mechanism involved in the formation and depletion of ozone in the atmosphere. 10

**OR**

- (a) Explain the division of atmosphere with reference to Homosphere and Heterosphere. 5  
 (b) What is atmosphere ? How it is useful in maintenance of life ? 5

3. What are clouds ? Describe the basic types of clouds and add a note on mechanism of formation of clouds. 10

**OR**

- (a) What are the different stages involved in the hydrological cycle ? 5  
 (b) Explain the formation of smog and its adverse effects on human health. 5

4. With the help of neat sketch, explain the working of Anemometer and their functions. 10

**OR**

- (a) What is Meteorology ? State the objectives of meteorology. 5  
 (b) Define humidity and add a note on its measurement. 5

5. Attempt any **ten** :

- (i) What is meant by environment ?
- (ii) What is stratopause ?
- (iii) On which date 'world ozone day' is being celebrated every year ?
- (iv) What is Biosphere ?
- (v) What are the major gases present in atmosphere ?
- (vi) Define environmental lapse rate.
- (vii) What is climatology ?
- (viii) Give the classification of fog on the basis of visibility.
- (ix) Define Mist.
- (x) What is the significance of solar radiation ?
- (xi) Name the primary meteorological parameters.
- (xii) Distinguish between relative humidity and absolute humidity. 1×10=10