

**B.Sc. Part—I (Semester—I) Examination**

**ENVIRONMENTAL SCIENCE**

**(Concept of Environmental Science)**

Time : Three Hours]

[Maximum Marks : 80

**Note :—**(1) **ALL** questions are compulsory.

(2) Draw neat and well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :

(i) Pedogenesis is also called as \_\_\_\_\_. ½

(ii) \_\_\_\_\_ equipment is used to measure rainfall. ½

(iii) The stratosphere is characterised by presence of \_\_\_\_\_ gas. ½

(iv) Humus is \_\_\_\_\_ content of soil. ½

(B) Choose correct alternatives from given choices :

(i) Typhoons and hurricanes are the examples of \_\_\_\_\_.

(a) Volcanoes

(b) Floods

(c) Cyclones ½

(ii) The gaseous envelope present around the earth is \_\_\_\_\_.

(a) Hydrosphere

(b) Atmosphere

(c) Ozone ½

- (iii) The humidity is measured with the help of \_\_\_\_\_.
- (a) Thermometer
  - (b) Barometer
  - (c) Psychrometer ½
- (iv) \_\_\_\_\_ is the form of precipitation.
- (a) Dust
  - (b) Carbon dioxide
  - (c) Sleet ½
- (C) Answer in one sentence :
- (i) Define Hydrosphere. 1
  - (ii) Define Soil Profile. 1
  - (iii) Define Humus and its types. 1
  - (iv) Define Clouds. 1
2. (A) Draw a well labelled diagram of hydrological cycle. 4
- (B) What are the principles of Environmental Science ? 4
- (C) Discuss Metamorphic Rocks with examples. 4
- OR**
- (D) What is scope of Environmental Science ? 4
- (E) Comment on types of Igneous Rocks. 4
- (F) What is composition of atmosphere ? 4
3. Describe in brief :
- (G) What is composition of soil ? 4
  - (H) Humus and its significance. 4
  - (I) Strategies for mineral conservation. 4
- OR**
- (J) Well labelled diagram for soil profile. 4
  - (K) Causes of deforestation. 4
  - (L) Discuss weathering. 4

4. What is solar insolation ? Explain the concept of heat budget in detail. 12

**OR**

What is wind ? What are the causes of wind generation ? Describe different world wide wind patterns. 12

5. Discuss in brief :

(M) Monsoon and its significances. 4

(N) Dew and fog as forms of precipitation. 4

(O) Middle clouds. 4

**OR**

(P) Orographic precipitation. 4

(Q) Concept of El-Nino. 4

(R) Saturated vapour pressure. 4

6. Describe Tundra biome with respect to their temperature, wind, precipitation and vegetation. 12

**OR**

What are cyclones ? Describe its causes, types and effects. 12

7. Write in short :

(S) Physical properties of marine environment. 4

(T) Tsunami — its origin and effects. 4

(U) Marine food resources. 4

**OR**

(V) Zonation in sea. 4

(W) Waves and tides as oceanic currents. 4

(X) Chemical properties of marine environment. 4

