

**B.Sc. (Part—I) Semester—I Examination**  
**ENVIRONMENTAL SCIENCE**  
**(Concept of Environmental Science)**

Time : Three Hours]

[Maximum Marks : 80

- N.B. :-** (1) All questions are compulsory.  
(2) Draw well labelled diagrams.

1. (A) Fill in the blanks :
- (i) The light intensity is measured by the instrument \_\_\_\_\_. ½
  - (ii) Polar ice caps accumulate about \_\_\_\_\_% of icy water. ½
  - (iii) The opening of dome of Volcano is called as \_\_\_\_\_. ½
  - (iv) Taiga is dominated by \_\_\_\_\_ vegetation. ½
- (B) Choose the correct alternative from the given choices :
- (i) Depending upon the texture the igneous rock does not represent \_\_\_\_\_ structure.  
(a) Holohyaline            (b) Hemihyaline            (c) Holocrystalline ½
  - (ii) The tropospheric lapse rate is \_\_\_\_\_.  
(a) 4.5°C/Km            (b) 6.5°C/Km            (c) 5.5°C/Km ½
  - (iii) Cirrus is the example of :  
(a) Low clouds            (b) Middle clouds            (c) High clouds ½
  - (iv) Which of the following is not the physical property of marine environment ?  
(a) Salinity            (b) Viscosity            (c) Surface tension ½
- (C) Answer the following in **one** sentence each :
- (i) Define lapse rate. 1
  - (ii) Mention the types of precipitation. 1
  - (iii) What is humus ? 1
  - (iv) What is El Nino ? 1
2. Describe in brief :
- (a) Principles of Environmental Science 4
  - (b) Troposphere 4
  - (c) Sedimentary rocks. 4
- OR**
- (d) Scope of Environmental Science 4
  - (e) Stratosphere 4
  - (f) Internal structure of earth. 4
3. Describe the fresh water resources with special reference to its demand and utilization. 12
- OR**
- What is Soil ? Give its composition. Describe the mechanism of soil formation. 12

4. Describe in brief :
- (g) Solar radiation 4
  - (h) Humidity and its types 4
  - (i) Trade wind pattern. 4
- OR**
- (j) Lapse rate 4
  - (k) Horizontal distribution of temperature 4
  - (l) Doldrum as a wind pattern. 4
5. Describe in brief :
- (m) Concept of fog 4
  - (n) Low clouds 4
  - (o) Bay of Bengal branch of monsoon. 4
- OR**
- (p) Middle clouds 4
  - (q) Rain as a form of precipitation 4
  - (r) Arabian Sea branch of precipitation. 4
6. Describe tropical rainforests with respect to their climate, distribution and vegetation. 12
- OR**
- What are Volcanoes ? Describe the causes, types and effects of volcanoes. 12
7. Describe in brief :
- (s) Viscosity and temperature as properties of Marine environment. 4
  - (t) Waves and tides as Oceanic movements. 4
  - (u) Marine mineral resources. 4
- OR**
- (v) Salinity and light penetration as properties of Marine environment. 4
  - (w) Effects of Tsunami. 4
  - (x) Marine food resources. 4