

## B.Sc. (Part-I) Semester-I Examination

### ENVIRONMENTAL SCIENCE

#### (Concepts of Environmental Science)

Time : Three Hours]

[Maximum Marks : 80

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

(2) Draw well labelled diagram wherever necessary.

1. (A) Fill in the blanks with appropriate words and rewrite the sentences :

(i) Lower most layer of atmosphere is \_\_\_\_\_. ½

(ii) In atmosphere the vapour condenses normally into liquid at a point called \_\_\_\_\_. ½

(iii) The rocks formed from cooling of Lava are called \_\_\_\_\_. ½

(iv) The up dwelling molten rocks that comes out through the vent of volcano is called \_\_\_\_\_. ½

(B) Choose the correct alternatives from the given choices :

(i) Which clouds are dangerous for air crafts ? ½

- |                 |                   |
|-----------------|-------------------|
| (a) Stratus     | (b) Cumulonimbus  |
| (c) Altostratus | (d) Stratocumulus |

(ii) Tropical savannah is dominated by : ½

- |              |             |
|--------------|-------------|
| (a) Conifers | (b) Grasses |
| (c) Mosses   | (d) Ferns   |

(iii) Which of the following is not the physical property of marine environment ? ½

- |                 |                       |
|-----------------|-----------------------|
| (a) Viscosity   | (b) Light penetration |
| (c) Temperature | (d) Salinity          |

(iv) \_\_\_\_\_ is the unit of atmospheric humidity. ½

- |                  |         |
|------------------|---------|
| (a) % percentage | (b) Lux |
| (c) Simens       | (d) °C  |

(C) Answer in **one** sentence :

(i) Define lapse rate. 1

(ii) What are doldrums ? 1

(iii) Give any 3-marine medicinal resources. 1

(iv) What is cyclonic precipitation ? 1

2. Describe with diagram hydrological cycle. 12

**OR**

What are rocks ? Describe Igneous rocks. 12

3. Write on the following :

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- |   |   |
|---|---|
| (a) Types of fresh water resources.             | 4 |
| (b) Strategies for the conservation of forests. | 4 |
| (c) Humus and its significance.                 | 4 |

OR

- |  |   |
|--|---|
| (d) Types of mineral resources.                | 4 |
| (e) Demand and utilization of water resources. | 4 |
| (f) Process of soil formation.                 | 4 |

4. What is temperature ? Mention horizontal temperature distribution. Add a note on temperature inversion. 12

OR

Define wind. Give the factors affecting wind motion. Describe different global wind patterns. 12

5. Write on the following :

- |                                    |   |
|------------------------------------|---|
| (g) Concept of fog.                | 4 |
| (h) Low clouds.                    | 4 |
| (i) Arabian sea branch of monsoon. | 4 |

OR

- |                                      |   |
|--------------------------------------|---|
| (j) Mechanism of El-Nino.            | 4 |
| (k) Orographic precipitation.        | 4 |
| (l) Rain as a form of precipitation. | 4 |

6. Write on the following :

- |   |   |
|---|---|
| (m) Distribution of tropical rainforests. | 4 |
| (n) Vegetation of savanna.                | 4 |
| (o) Consequences of floods.               | 4 |

OR

- |                               |   |
|-------------------------------|---|
| (p) Consequences of cyclones. | 4 |
| (q) Causes of earthquakes.    | 4 |
| (r) Climate of taiga.         | 4 |

7. Write on the following :

- |  |   |
|--|---|
| (s) Physical properties of marine environment. | 4 |
| (t) Effects of Tsunami.                        | 4 |
| (u) Mineral resources from marine environment. | 4 |

OR

- |  |   |
|--|---|
| (v) Oceanic currents.                          | 4 |
| (w) Petroleum deposits in marine environment.  | 4 |
| (x) Chemical properties of marine environment. | 4 |