

M.Sc(Environmental Sci.) Semester - 1 (CBCS) Examination

OCT/NOV-2024

Basic Environmental Science (Core)

Time: 2:30 Hours

Marks: 70

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

- Q.1 Answer the following (any 7) 14**
- 1) What is the difference between fog and dew?
 - 2) State the significance of the biosphere.
 - 3) What are the factors affecting of climate change?
 - 4) What is the percentage of dissolved oxygen in seawater?
 - 5) What is the difference between fresh water and seawater
 - 6) Write the classification of elements in the atmosphere
 - 7) What are noble gases?
 - 8) What is earths energy budget?
 - 9) State the factors affecting soil development
 - 10) What is the difference between bulk density and particle density
- Q.2 Answer the following (any two) 14**
- 1) Write a detailed note on the structure of the earth
 - 2) Explain the earth's climatic zones and biomass
 - 3) Describe the basic difference in different types of precipitation
- Q.3 Answer the following**
- 1) Describe the composition and structure of atmosphere 05
 - 2) Explain the radioactivity in the atmosphere. 05
 - 3) Discuss the inversion and mixing of heights in atmosphere 04
- OR**
- Q.3 Answer the following 14**
- 1) Explain – Reaction in lower and upper atmosphere
 - 2) Write a note on ‘Wind rose’
- Q.4 Answer the following**
- A. Attempt any two 10**
- 1) Explain the environmental significance of water.
 - 2) State the distribution of water on the surface of the earth
 - 3) Describe the freshwater and its chemistry
- B. Attempt any one 04**
- 1) Explain the structure of water
 - 2) Describe the solubility of gases in water
- Q.5 Answer the following (any two) 14**
- 1) Write a detailed note on metallic and non-metallic mineral resources
 - 2) What are properties of seawater?
 - 3) State the soil types and their formation
 - 4) Describe the factors and process of soil development
