

**M.Sc(Environmental Sci.) Semester - 1 (CBCS) Examination****Nov/Dec-2023****Basic Environmental Science****Time: 2:30 Hours****Marks: 70****Instructions:**

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

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- Q.1 Answer the following (any 7) 14**
- (1) What is the difference between mist and fog?
  - (2) Define the term 'Biomes'
  - (3) What do you mean by 'Radioactivity'?
  - (4) State the percentage of major gases in the atmosphere
  - (5) Define – Salinity
  - (6) What is distribution of water on the earth?
  - (7) What are noble gases?
  - (8) Explain – manganese nodules
  - (9) State the factors affecting soil development
  - (10) What is difference between bulk density and particle density
- Q.2 Answer the following (any two) 14**
- (1) Write a detailed note on structure of earth
  - (2) State different climatic zones of earth
  - (3) Describe the Biosphere in context to environment
- Q.3 Answer the following**
- (1) Describe the composition of atmosphere 05
  - (2) Explain – Atmospheric stability 05
  - (3) State the functions of atmosphere 04
- OR**
- Q.3 Answer the following 14**
- (1) Write a detailed note on 'Earth's Energy budget'
  - (2) What is wind rose? How it is useful in environmental science?
- Q.4 Answer the following**
- A. Attempt any two 10**
- (1) Explain the properties of water.
  - (2) State the role of water in the environment
  - (3) Describe the solubility of gases in water
- B. Attempt any one 04**
- (1) Write the structure of water
  - (2) Describe the fresh water chemistry
- Q.5 Answer the following (any two) 14**
- (1) Write a detailed note on chemical properties of seawater
  - (2) Explain – Soil types and their formation
  - (3) Which are the chemical and physical properties of soil
  - (4) State some biological properties of marine water

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