

Bachelor of Science (B.Sc.) Semester–II Examination
ENVIRONMENTAL SCIENCE (INTRODUCTION TO ECOSYSTEM AND BIODIVERSITY)
Optional Paper–2

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) All questions are compulsory and carry equal marks.
 (2) Illustrate your answer with suitable examples and diagrams.

1. Illustrate Nitrogen cycle with suitable diagram. 10

OR

- (a) Define biomes. Discuss major biomes of India. 5
 (b) Explain the structure and function of forest ecosystem. 5
 2. Define Biogeochemical cycle. Discuss the role of biogeochemical cycle in balancing the nature. 10

OR

- (a) Describe oxygen production method used to measure productivity. 5
 (b) Illustrate phosphorous cycle in detail with help of diagram. 5
 3. Explain the objectives of social forestry. 10

OR

- (a) Discuss the adverse effects of deforestation with suitable examples. 5
 (b) What are the techniques used to control forest fires ? Explain. 5
 4. Define biodiversity. Explain the strategy used for preservation and conservation of biodiversity. 10

OR

- (a) Describe in detail Biodiversity Act. 5
 (b) Explain the In-situ conservation with suitable example. 5
 5. Write in short (Attempt any **Ten**) :
 (a) What are the components of ocean ecosystem ?
 (b) Define biochemical cycles.
 (c) Write a note on food chain.
 (d) Give the types of biogeochemical cycles.
 (e) How primary productivity has been measured ?
 (f) Write a note on Radioisotope method.
 (g) Write the significance of forest.
 (h) What are the salient features of Forest Protection Act ?
 (i) What do you mean by Joint Forest Management ?
 (j) Define 'Hotspots' of biodiversity.
 (k) Give the biogeographic classification of India.
 (l) Write a note on Endangered species. 1×10=10