

Bachelor of Science (B.Sc.) Semester—II (C.B.S.) Examination
ENVIRONMENTAL SCIENCE (Introduction to Ecosystem and Biodiversity)
Compulsory Paper—2

Time : Three Hours]

[Maximum Marks : 50]

Note :— (1) **ALL** questions are compulsory and carry equal marks.
(2) Illustrate your answers with suitable examples and diagrams.

1. What is biome ? Explain the major terrestrial biomes of the world. 10

OR

(a) Explain Nitrogen Cycle with illustration. 5
(b) Define ecosystem. Explain pond as an aquatic ecosystem. 5

2. Define biogeochemical cycles. Explain phosphorous and sulphur with an illustration. 10

OR

(a) Explain the factors affecting productivity. 5
(b) Define productivity. Discuss the oxygen production method for measuring primary productivity. 5

3. Discuss forest based medicinal and pharmaceutical industries. Add a note on significance of forest. 10

OR

(a) Discuss the issues connected with 'Chipko Movement'. 5
(b) What is forest fires ? Discuss types of forest fires. 5

4. Define biodiversity. Discuss the types and factors responsible for the loss of biodiversity. 10

OR

(a) Discuss 'In-Situ' conservation of biodiversity. 5
(b) Distinguish between Endemic and Endangered species. 5

5. Write in **2-3** lines (any **ten**) :

- (a) What is food chain ?
- (b) What are the components of ecosystem ?
- (c) Write a note on “Oxygen cycle”.
- (d) What are sedimentary cycles ?
- (e) What do you mean by Net primary productivity ?
- (f) Write the name of any two method used for the measurement of primary productivity.
- (g) What is Afforestation ?
- (h) Write a note on Joined Forest Management.
- (i) What are objectives of social forestry ?
- (j) What is ‘Hotspots’ of biodiversity ?
- (k) Write a note on “Community Biodiversity Register”.
- (l) What is ‘Ex-situ’ conservation of biodiversity ?

$1 \times 10 = 10$