

Bachelor of Science (B.Sc.) Semester-I (C.B.S.) Examination
ENVIRONMENTAL SCIENCE (Environmental Ecology)
Compulsory Paper—2

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) **All** questions are compulsory.

(2) All questions carry equal marks.

(3) Illustrate your answers with suitable diagrams.

1. Discuss the modern branches of ecology, add a note on significance of ecology to human beings. 10

OR

(a) Describe microclimate as an abiotic factor. 5

(b) How humidity affect the life on an organism ? 5

2. Discuss mutualism and commensalism as interspecific relationship. 10

OR

(a) How animals show adaptation in desert environment ? 5

(b) Explain parasitism as interspecific relationship. 5

3. Discuss in brief the characteristics of population ecology w.r.t. natality, mortality and population density. 10

OR

(a) Write an informative note on zonation in marine system. 5

(b) Explain the concept of carrying capacity. 5

4. Discuss the process and pattern of ecological succession. 10

OR

(a) Describe ecological niche as a characteristic of community ecology. 5

(b) Explain growth form and dominance as characteristics of community ecology. 5

5. Attempt any **ten** :

(i) What is ecology ?

(ii) What is the meaning of edaphic factor ?

(iii) Distinguish between biotic and abiotic factors.

(iv) What is neutralism ?

(v) What are hydrophytes ?

(vi) Give examples of predation.

(vii) Draw neat sketches of age distribution.

(viii) What is marine ecology ?

(ix) Mention physical characteristics of marine ecology.

(x) Define community ecology.

(xi) What is ecological succession ?

(xii) What is the meaning of ecotone ?

1×10=10