

**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 ?

$1 \times 10 = 10$