

**KNT/KW/16/5062**

**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 and carry equal marks.

(2) Illustrate your answers with suitable examples and diagrams.

1. Define Environmental Factor. Explain light as an abiotic factor and show how it influences the life of animals. 10

**OR**

(a) What are the sub divisions of ecology ? 5

(b) Write a note on application and significance of ecology to the human beings. 5

2. Explain the different types of competition. 10

**OR**

(a) Explain xerophytic adaptation in plants. 5

(b) Explain Neutralism with example. 5

3. Define population ecology. Discuss the population density and dispersion. 10

**OR**

(a) Define Marine Ecology. Explain the ecological classification of marine biota. 5

(b) Explain the basic concept of carrying capacity. 5

4. What are Ecological Niche ? Explain the different types of Ecological Niche with examples. 10

**OR**

(a) Define ecological succession. Add a note on succession patterns. 5

(b) With illustration, explain density, frequency and abundance as important characteristics of community ecology. 5

5. Attempt any **ten** :

(i) Distinguish between biotic and abiotic factors.

(ii) What are edaphic factors ?

(iii) What is ecology ?

(iv) Define antagonism.

(v) Differentiate between predation and symbiotic relationship.

(vi) What are the examples of hydrophytes ?

(vii) Explain the carrying capacity.

(viii) Define Natality and Mortality.

(ix) Explain the zonation in marine ecosystem.

(x) Define community ecology.

(xi) What is the significance of ecological succession ?

(xii) Define ecological indicator.

1×10=10