

Bachelor of Science (B.Sc.) (Part-I) Second Semester Old Course  
**2SEVS-T2 - Environmental Science Paper-II (Species Ecology)**

P. Pages : 2

Time : Three Hours



**GUG/W/18/11581**

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
  2. Illustrate the answers with suitable diagrams and examples.

1. Discuss forest as major biome of the world. **10**

**OR**

Describe inherent and learned Behaviour with suitable examples.

2. What are the forms and material used in nesting? Describe brooding in birds. **10**

**OR**

Discuss in brief the major forest types in India.

3. **2½x4 =10**
- a) What are the characteristic features of taiga biome?
  - b) Write a brief note on sound and Behaviour in animals.
  - c) Give an account of parental care in amphibians.
  - d) Why forests are important of human being?

**OR**

- e) Describe the characteristic fauna of Australian region.
- f) What are the advantages of social Behaviour?
- g) Explain effects of photoperiod on animals.
- h) What are the causes of depletion of wildlife?

4. **2½x4 =10**
- a) Discuss briefly the role of Barriers in the distribution of animals.
  - b) Explain social life in termites.
  - c) Describe theories pertaining to biological clocks.
  - d) Write a brief note on joint forest management.

**OR**

- e) Write explanatory note on cosmopolitan distribution of animals.
- f) What are the advantages of family and group Behaviour?
- g) Write short note on circadian rhythms.
- h) Explain various causes of forest destruction.

**5.** Answer in 2-3 lines **any ten.**

**1x10  
=10**

- a) What is a biome?
- b) Define phytogeography.
- c) What is endemism?
- d) Define animal Behaviour.
- e) Mention different levels of social Behaviour.
- f) Write any two advantages of dominance Behaviour.
- g) What is biological clock?
- h) What is the meaning of lunar periodicity?
- i) What is the appropriate nesting season for birds?
- j) Give examples of minor forest products.
- k) What is biodiversity?
- l) Mention hotspots of biodiversity in India.

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