

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

P. Pages : 2

Time : Three Hours



**GUG/S/19/1239**

Max. Marks : 50

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

1. What is biogeography? Describe zoogeography of Indian sub region. 10

**OR**

Define animal behavior. Discuss its form.

2. Describe brooding behavior in birds. 10

**OR**

State importance of forest. Discuss major forest types in India.

3. a) Describe grassland as a biome. 2½

b) Discuss social life in bees. 2½

c) State types of pheromones. Write about human sex pheromones. 2½

d) Comment on- Status of wildlife in India. 2½

**OR**

e) Describe patterns of animal distribution. 2½

f) Enlist advantages of social behavior. 2½

g) Discuss effects of photoperiod on animals. 2½

h) How forest can be conserved? 2½

4. a) Highlight barriers to animal distribution. 2½

b) State characteristics of social life. 2½

c) Give an account on parental care in amphibians. 2½

d) Explain the contribution of JFM in conservation of forest. 2½

**OR**

e) Describe tundra as a biome. 2½

- f) Write an informative account on social life in ants. 2½
- g) How pheromones help in communication in animals? 2½
- h) Explain levels of biodiversity. 2½

**5.** Answer in 2-3 lines **any ten.** **1x10**  
**=10**

- a) Define biome.
- b) What is phytogeography?
- c) Neotropical region is associated with.
- d) Define dominance.
- e) Name different caste in honeybees.
- f) What is Stimuli?
- g) how mother-baby communicate?
- h) Define biological clock.
- i) Give examples of circadian rhythms.
- j) What are minor forest products?
- k) Red data book is associated with.
- l) Name hotspot of biodiversity in India.

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