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(Pages: 2)

Name: .....

Reg.No: .....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P ZOL1 C03 - ECOLOGY AND ETHOLOGY**

(Zoology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

Answer any *four* questions. Each question carries 2 weightage.

1. What is net primary productivity?
2. Explain growth and regulation of human population.
3. What is Gangetic plane zone?
4. Briefly describe biodiversity with special reference to India- status monitoring.
5. Explain the concept of stimulus filtering with example.
6. Discuss the displacement activity with example.
7. Explain selfish gene theory.

**(4 × 2 = 8 Weightage)**

**Part-B**

Answer any *four* questions. Each question carries 3 weightage.

8. Differentiate between resource partitioning and character displacement.
9. What is edge effect?
10. Explain the importance of oceans and coasts in carbon sequestration.
11. Explain major approaches in conservation biology.
12. Discuss the neural basis of learning and memory.
13. Briefly explain the reafference theory.
14. Give an account of different types of mating systems with examples.

**(4 × 3 = 12 Weightage)**

### **Part-C**

Answer any *two* questions. Each question carries 5 weightage.

15. Give a detailed account on population density estimation methods in animals and ranging patterns through direct/ indirect observations.
16. Write an essay on species interactions.
17. Write an essay on major terrestrial biomes.
18. Write an essay on the role of hormones in regulating animal behaviour.

**(2 × 5 = 10 Weightage)**

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