

**20P116**

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Name: .....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020**

(CBCSS-PG)

(Regular/Supplementary/Improvement)

**CC19P ZOL1 C03 – ECOLOGY AND ETHOLOGY**

(Zoology)

(2019 Admission onwards)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any *four* questions

1. What are r and k species?
2. What are niche and niche width?
3. Explain Simpson's diversity index.
4. What are age pyramids?
5. What are ethograms?
6. Describe sign stimulus with example.
7. Explain selfish gene theory

**(4 x 2 = 8 Weightage)**

II. Answer any *four* questions

8. What is herbivory? Mention plant defenses against herbivory.
9. Describe life tables and survivorship curves.
10. Write notes on ecological features of Tundra and Savanna.
11. Explain symbiosis with examples.
12. Write on the effects of hormones on different behaviour patterns.
13. Write on conflict behaviour.
14. Comment on the instinctive behaviour in organisms with suitable example.

**(4 x 3 = 12 Weightage)**

III. Answer any *two* questions.

15. Describe the biogeographical zones of India.
16. Explain the energetics of an ecosystem. Describe the energy flow models.
17. Describe in detail the social behavior found in primates.
18. Write an essay on ecological succession.

**(2 x 5 = 10 Weightage)**

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