

15P215

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Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JULY 2016

(CUCSS -PG)

(Zoology)

CC 15P ZO2 C05 - ECOLOGY AND ETHOLOGY

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

I. Answer *all* questions. Each question carries 1 weightage

1. What is stimulus filtering?
2. What is meant by a niche? Differentiate between realized and fundamental niche.
3. Write the characteristics of Tundra biome.
4. Comment on "Simpson Index". Add a note on its significance.
5. What is meant by conditioning?
6. Distinguish between "Symbiosis" and "Mutualism".
7. What are Ecological Hotspots? Give two examples.
8. What does Gamma diversity imply?
9. What is ethogram? Give suitable example.
10. What is meant by Environmental resistance?
11. Distinguish between lentic and lotic habitat with suitable examples.
12. Explain life tables.
13. What are "Fixed Action Patterns"?
14. Define climax community.

(14 x 1 = 14 Weightage)

II. Answer any *Seven* questions. Each question carries 2 weightage

15. Explain latitudinal gradients in diversity.
16. Comment on cultural transmission of behaviour.
17. Describe mineral cycling.
18. Explain motivation studies in Guppies.
19. Explain the objectives of Project tiger.
20. Give an account of the Navigation cues employed by animals during migration.
21. Explain the different types of Survivorship curves with examples.
22. Describe the mechanism of ecological succession.
23. Enumerate the ecological features and significance of K-selection.
24. Give a summary of the impact of Radiation pollution.

(7 x 2 = 14 Weightage)

III. Answer any two questions. Each question carries 4 weightage

- 25. Give an account of the social organisation of Primates.
- 26. Give an outline on the conservation and Management strategies in the Indian context.
- 27. Explain with suitable examples the types of species interactions and its advantages.
- 28. Explain the term biodiversity; describe alpha, beta and gamma diversity, and methods of measuring diversity.

(2 x 4 = 8 Weightage)
