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Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (C.B.C.S.S.) [REGULAR / SUPPLEMENTARY]  
EXAMINATION, NOVEMBER 2022**

Zoology

ZOL 1C 03—ECOLOGY AND ETHOLOGY

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**Part A (Ecology)**I. Answer any *three* of the following :

1. Connectance and linkage.
2. Mutualistic cheating.
3. r-selection.
4. Project tiger programme.
5. Carbon credit.

(3 × 2 = 6 weightage)

II. Answer any *three* of the following :

6. Dispersive mutualism.
7. Life tables and survivorship curve.
8. Nitrogen cycle.
9. Competitive Exclusion Principle.
10. Savanna biome.

(3 × 3 = 9 weightage)

III. Answer any *one* of the following :

11. Briefly explain ecological succession and its significance.
12. Discuss on the characteristics of a biotic community. Add a note on edges and ecotones.

(1 × 5 = 5 weightage)

**Turn over**

## Part B (Ethology)

IV. Answer any *one* of the following :

- 13. Cognition.
- 14. Altruism.

V. Answer any *one* of the following :

- 15. JP Scott's categories of behaviour.
- 16. Navigation and migration.

VI. Answer any *one* of the following :

- 17. Write an essay on social organization in primates. Add a note on social structure.
- 18. Explain the role of hormones in behaviour giving emphasis to adrenal gland.