

25P216

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Name:

Reg.No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2026

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19PZOL2C06 - SYSTEMATICS AND EVOLUTION

(Zoology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

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

1. Describe typological species concept.
2. Explain biological classification and hierarchical classification.
3. Explain type collections and its importance.
4. Explain type and its importance.
5. Explain impediments for building up taxonomic collections and its maintenance.
6. Explain bottlenecking and founder effect in evolution.
7. Review australopithecines in human evolution.

(4 × 2 = 8 Weightage)

Part-B

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

8. Explain pre-Darwinian theories of classification.
9. Define taxonomic character. Explain any four taxonomic characters.
10. Compare molecular systematics and numerical taxonomy.
11. Explain abiogenic origin of life on earth.
12. Describe the role of secondary sexual characteristics in natural selection.
13. Explain molecular drive.
14. Explain molecular divergence and its applications.

(4 × 3 = 12 Weightage)

Part-C

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

15. Define species. Explain species as a complex.
16. Explain taxonomic publications and preparation of taxonomic papers.
17. Explain ethics. Discuss ethics related to taxonomic publications.
18. Discuss speciation. Differentiate different types of speciation.

(2 × 5 = 10 Weightage)
