

23P216

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Name: .....

Reg.No: .....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2024**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P ZOL2 C06 - 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. Explain the term taxonomy. Describe different levels of taxonomy.
2. Describe downward classification and cladistic classification.
3. Explain taxonomic characters and evolution.
4. Explain synonym and homonym with examples.
5. Define short research papers, catalogue and checklist.
6. What are the geological and fossil evidences of evolution?
7. What is mitochondrial molecular clock?

**(4 × 2 = 8 Weightage)**

**Part-B**

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

8. Explain the difficulties in the application of biological species concept.
9. Describe various kinds of collections in taxonomic research.
10. Compare molecular systematics and numerical taxonomy.
11. Explain sexy son and good-gene hypothesis.
12. Explain genetic drift as a mechanism of speciation.
13. Explain molecular drive.
14. Explain the Evolutionary trends of communication, speech and language in primates.

**(4 × 3 = 12 Weightage)**

**Part-C**

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

15. Explain classification, theories and its use in taxonomy.
16. Define a taxonomic key. Explain different types of keys.
17. Explain impediments in taxonomy.
18. Discuss the importance of isolation in speciation. Illustrate different RIMs with examples.

**(2 × 5 = 10 Weightage)**

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