

22P216

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Name:

Reg.No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023

(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. Explain evolutionary and omnispective classification.
3. Explain circular key and branching key with an example.
4. Explain numerical taxonomy.
5. Explain any four taxonomic impediments
6. Explain Hardy-Weinberg law.
7. Explain Y chromosome Adam.

(4 × 2 = 8 Weightage)

Part-B

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

8. Define biological species concept.
9. Define morphological and physiological taxonomic characters.
10. Discuss ethics to be followed while publishing taxonomic papers.
11. Illustrate the importance of imperfections in evolution.
12. Discuss punctuated equilibrium concept in evolution.
13. What is Neutral theory of molecular evolution?
14. Explain the evolution of Australopithecine.

(4 × 3 = 12 Weightage)

Part-C

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

15. Discuss various theories of classification.

16. Describe value, purpose and types of collections.
17. Describe zoological nomenclature.
18. Describe the peculiarities of insular fauna.

(2 × 5 = 10 Weightage)
