

C 83090

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.A./M.Sc./M.Com. DEGREE EXAMINATION
JUNE 2020**

(CBCSS)

Zoology

ZOL 2C 06—SYSTEMATICS AND EVOLUTION

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

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

1. Impediments in taxonomic collections and maintenance.
2. Geographical taxonomic characters.
3. Holotype and Lectotype.
4. Ecospecies and Coenospecies.
5. mt-MRCA.
6. Anagenesis.
7. Bottleneck effect.

(4 × 2 = 8 weightage)

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

8. Elucidate the history of zoological nomenclature.
9. Explain different approaches to identification in taxonomy.
10. Explain the biological species concept. Comment on the difficulties in the application of biological species concept.
11. Write the ethics related to taxonomic publication.
12. Give a critical account on how evolution explains communication in primates.
13. Describe the mechanisms of natural selection.
14. Elaborate on the concept of molecular clock.

(4 × 3 = 12 weightage)

Turn over

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

15. Elaborate on the importance and applications of taxonomy.
16. Explain various theories of classification.
17. Explain modern trends in taxonomy.
18. Explain various approaches to establish phylogenetic relationships.

(2 × 5 = 10 weightage)