

2022
M.Sc.
First Semester
CORE – 03
ZOOLOGY
Course Code: MZOC 1.31
(Biosystematics & Evolutionary Biology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Write short notes on the following: 7×2=14
 - (a) Importance of biosystematics
 - (b) Linkage
2. Explain the different types of satellite DNA. 14

UNIT-II

3. Discuss the principle of binomial nomenclature and principle of priority. 7+7=14
4. Write notes on the following: 7×2=14
 - (a) Similarity and dissimilarity of species index
 - (b) Shannon index and Simpson index

UNIT-III

5. Explain the different modes of speciation. 14
6. Describe the theory of Darwinism. Add a note on catastrophism. 10+4=14

UNIT-IV

7. Explain the various mode of speciation. 14

8. Write notes on the following: 7×2=14
(a) Post-mating isolating mechanism
(b) Origin of reproductive isolation

UNIT-V

9. Explain the different kinds of variation. 14
10. Discuss the theory and genetic basis of random genetic drift. 7+7=14
-