QP CODE: 25050499

25050499

Reg No : .....

Name : .....

MSc DEGREE (CSS)EXAMINATION, DECEMBER 2025

First Semester

M Sc ZOOLOGY

Core Courses - ZL010102 - EVOLUTIONARY BIOLOGY AND ETHOLOGY

2019 Admission Onwards

82288A3D

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Comment on origin of eukaryotic cells.
2. Comment on the importance of evolution of photosynthesis.
3. Comment on genetic equidistance.
4. Define Heterochrony.
5. Explain Sign stimuli and Key stimuli.
6. Differentiate habituation from sensitization.
7. Explain Electrical communications citing examples.
8. What is group selection? Cite an example.
9. Comment on cooperative behaviour.
10. List out the hormones involved in sexual behaviour.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Briefly explain the contributions of Eldridge and Gould.
12. Explain the importance of protein and nucleotide sequence analysis in phylogeny.
13. What is genetic drift? Mention its effect on gene frequency.
14. Briefly explain isolation citing examples.

15. Give an account on mass extinction and its consequences.

16. Explain the dance language of honey bees.

17. Give an account of different modes of parental care observed in fishes.

18. Write short notes on tidal rhythm and circadian rhythm, citing suitable example.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Give an account on the evolution of plasticity and complexity

20. Give an account on the stages in primate evolution.Add a note on the anatomical and morphological factors in human origin.

21. Explain Neurophysiological concepts in behaviour.

22. Give an account on territoriality and foraging behaviour.

(2×5=10 weightage)