QP CODE: 25050498

25050498

Reg No : .....

Name : .....

MSc DEGREE (CSS)EXAMINATION DECEMBER 2025

First Semester

M Sc ZOOLOGY

Core Courses - ZL010101 - ANIMAL DIVERSITY:PHYLOGENETIC AND TAXONOMIC APPROACHES

2019 Admission Onwards

6DA1B1B5

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Comment on eukaryotes.
2. What is Mesozoa?
3. What is the significance of Paedomorphosis in vertebrate phylogeny?
4. Comment on Acanthodians.
5. What is the significance of amniotic egg?
6. Citing example distinguish diapsid and synapsid skull
7. Name any four higher taxa.
8. GTI.
9. Differentiate catalogue and checklist.
10. Differentiate monophyletic and paraphyletic groups.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Comment on the reasons for the success of Phylum Arthropoda.
12. Give an account on the characters and adaptive radiation of Phylum Echinodermata.
13. Cephalochordates and vertebrate origin – Comment on the phylogenetic aspects.
14. Substantiate the significance of Ostracoderms in vertebrate phylogeny.

15. Explain the significance of therapsids in mammalian phylogeny.

16. Give principles and rules of ICZN.

17. Differntiate e-taxonomy and cyber taxonomy.

18. Give an account on dichotomous keys.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Write an essay on the causes and consequenses of Cambrian explosion.

20. Write an essay on Lissamphibians- characters, diversity, status and threats.

21. Give an account on the recent trends in taxonomy.

22. Write an essay about Phylogenetic tree – features, types and significance.

(2×5=10 weightage)