QP CODE: 23145366

Reg No : .....

Name : .....

M Sc DEGREE (CSS) EXAMINATION, DECEMBER 2023

First Semester

M Sc ZOOLOGY

CORE - ZL010101 - ANIMAL DIVERSITY:PHYLOGENETIC AND TAXONOMIC APPROACHES

2019 ADMISSION ONWARDS

5663FD25

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What are stromatolites?
2. Define symmetry and its significance
3. Heterostracans
4. Phylogenetic significance of Sarcopterygians
5. Write a short note on Lissamphibians
6. Fossil bird
7. Phylocode
8. Cybertaxonomy
9. Give a brief account on Zoological records
10. What are the significance of phylogenetic systematics?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Comment on Ediacaran fauna
12. Comment on the adaptive radiation of Phylum Annelida
13. Comment on affinities of vertebrate with cephalochordates

14. Write notes on paedomorphosis in vertebrate phylogeny

15. Comment on the adaptive radiation in reptiles

16. Describe morphological taxonomic characters

17. Write notes on Global Taxonomic Initiatives

18. Give an account on computer aided keys

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Comment on the phylogenetic relationship among Porifera, Placozoa and Mesozoa

20. Write an essay on the significance of teeth, jaws and hearing in mammalian phylogeny

21. Describe taxonomic procedures

22. What is molecular phylogeny? Comment on the use of protein and nucleic acid in molecular phylogeny

(2×5=10 weightage)