

Reg.No.: .....

Name : .....

**MSc DEGREE END SEMESTER EXAMINATION – OCTOBER 2015**

SEMESTER: 1: SUBJECT – ZOOLOGY

COURSE: P1ZOOT01 –BIOSYSTEMATICS AND ANIMAL DIVERSITY

*(Regular, Supplementary / Improvement)*

Time: Three Hours

Max. Marks: 75

**Part-A**

(Answer any **8** questions. Each carries 2 marks)

1. What is Holotype?
2. Define Systematics.
3. Comment on the symmetry in organisms.
4. What is synonymy?
5. Explain 'connecting link' with an example.
6. Discuss the salient features of Gymnophiona
7. Write short notes on Numerical Taxonomy.
8. What is Polymorphism?
9. Write short notes on Anurans.
10. Enumerate the salient features of Cephalochordata.
11. What is meant by 'Paedomorphosis'?
12. Explain DNA barcoding?

(2 x 8 = 16)

**Part-B**

(Answer any **7** questions. Each carries 5 marks)

13. Write notes on Ethics in Taxonomy.
14. Describe the hierarchical system of classification.
15. Explain the Law of priority.
16. Explain the different types of taxonomic keys.
17. Explain Phylogenetic tree.
18. Explain the different types of larval forms in Phylum Echinodermata.
19. Discuss Cropping and Red Queen Principle.
20. Enumerate the salient features of Phylum Ctenophora.
21. Compare the features of Osteichthyes and Chondrichthyes.
22. Describe the taxonomical importance of Reptilian skull.

(5 x 7 = 35)

**Part-C**

(Answer any **2** questions. Each carries 12 marks)

23. Discuss the modern methods in taxonomy
24. Write an essay on the rules and regulations of international Code of Zoological Nomenclature for giving the scientific names of organisms.
25. Explain the structural and functional adaptations of fishes.
26. Write an essay on adaptive radiation in Molluscs.

(12 x 2 = 24)

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