

Reg. No

Name

M. Sc DEGREE END SEMESTER EXAMINATION - 2019**SEMESTER 1 : ZOOLOGY****COURSE : 16P1ZOOT01 : BIOSYSTEMATICS AND ANIMAL DIVERSITY***(For Regular - 2019 Admission and Supplementary - 2016/2017/2018 Admissions)*

Time : Three Hours

Max. Marks: 75

Section A**Answer any 8 (2 marks each)**

1. Define the term 'Class'.
2. Comment on the importance of Curation in taxonomy.
3. What is Phylocode? Comment on its significance.
4. Write a brief note on BNHS.
5. Briefly explain the molluscan diversity of India.
6. What are the types of snakes found in India?
7. Comment on Ediacaran fauna.
8. Explain 'Cellular grade of organization'.
9. Comment on foraminifers and radiolarians.
10. Why are hemichordates called so?
11. Write a note on 'Lung fishes'.
12. What is the importance of Latimeria?

(2 x 8 = 16)

Section B**Answer any 7 (5 marks each)**

13. Critically evaluate the five kingdom and six kingdom classifications.
14. Distinguish between 'Plesiomorphic and Apomorphic characters'.
15. Write briefly on 'Ethics in Taxonomy'.
16. What do you mean by micro complement fixation?
17. Briefly describe the contributions of Ferdinand Stoliczka and Wynter – Blyth to the study of Indian Fauna.
18. Comment on the Indian bird fauna.
19. Write notes on cnidarians and ctenophores.
20. Comment on the levels of organization in organismal complexity.
21. Explain the types of canal systems in sponges.
22. Discuss the phylogeny of Deuterostomia.

(5 x 7 = 35)

Section C**Answer any 2 (12 marks each)**

23. Distinguish between a 'review' and a 'newsletter'.
24. Explain the Forest Conservation Act of 1878 and 1927.
25. Discuss the evolutionary relationships and adaptive modifications in lower metazoans.
26. Write an explanatory note on the classification of living fishes.

(12 x 2 = 24)