Name	18P107
	Name

## M.Sc DEGREE END SEMESTER EXAMINATION - NOVEMBER 2018 SEMESTER 1 : ZOOLOGY

COURSE: 16P1ZOOT01: BIOSYSTEMATICS AND ANIMAL DIVERSITY

(For Regular - 2018 Admission & Supplementary - 2016 / 2017 Admissions)

Time: Three Hours

Max. Marks: 75

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

- 1. What is Alpha Taxonomy?
- 2. Define Race.
- 3. What is Phenetics?
- 4. How is a scientific name written?
- 5. What is Phylocode? Comment on its significance.
- 6. Write briefly on Asiatic Society of Bengal.
- 7. What are endangered animals? Give examples.
- 8. Brief on the commercial prawns of India.
- 9. Comment on Ediacaran fauna.
- 10. Comment on foraminifers and radiolarians.
- 11. Why hemichordates are called so?
- 12. Brief on lung fishes.

 $(2 \times 8 = 16)$ 

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

- 13. Critically evaluate the five kingdom and six kingdom classifications.
- 14. Critically evaluate the biological and evolutionary species concepts.
- 15. Write briefly on ICZN. Explain important rules in ICZN.
- 16. Briefly explain the concept 'Tree of Life'.
- 17. Comment on ZSI and its role in conservation of Indian fauna.
- 18. Distinguish between placozoa and mesozoa.
- 19. Comment on different types of coelom. Add a note on the origin of coelom.
- 20. Distinguish between Agnatha and Gnathostomata.
- 21. Briefly explain the characteristics of subphylum vertebrata.
- 22. Give an account of the classification of modern amphibians.

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

- 23. Write an essay on various taxonomic keys. Add a critical note on the merits and demerits of keys.
- 24. List out the characteristics of Arthropoda. Highlight why arthropods have achieved great diversity and abundance.
- 25. Impact of adaptive radiation in evolutionary studies. Importance of trochophore larva in evolutionary studies.
- 26. List out and explain the adaptations of bird structure and function for flight.

 $(12 \times 2 = 24)$