

Reg. No

Name

17P107

MSc DEGREE END SEMESTER EXAMINATION - NOVEMBER 2017

SEMESTER 1 : ZOOLOGY

COURSE : 16P1ZOOT01 - BIOSYSTEMATICS AND ANIMAL DIVERSITY

(Common for Regular - 2017 / Supplementary - 2016 Admissions)

Time : Three Hours

Max. Marks: 75

Section A

Answer any 8 (2 marks each)

1. Define Microtaxonomy
2. Differentiate between Systematics and Taxonomy.
3. What is Phenetics?
4. Comment on the importance of curation in taxonomy.
5. What is a phylogenetic tree?
6. What is endemism ? List out the endemic animals of Kerala.
7. Comment on the types of snakes in India.
8. Write critically on Burgess Shale fauna.
9. Comment on cephalization.
10. Discuss briefly on the larval forms of echinoderms.
11. Highlight the characteristics of Neopilina.
12. Comment on the connecting link between reptiles and birds.

(2 x 8 = 16)

Section B

Answer any 7 (5 marks each)

13. Write a critical note on six kingdom classification.
14. Critically evaluate the biological and evolutionary species concepts.
15. What is a taxonomic key? Comment on merits and demerits of keys.
16. Write a critical note on the Cladistic analysis.
17. Briefly describe the contributions of Ferdinand Stoliczka and Wynter – Blyth to the study of Indian Fauna.
18. Comment on ZSI and its role in conservation of Indian fauna.
19. Describe the fossil history of echinoderms.
20. Briefly explain different types of body symmetry.
21. Give an account of the classification of cnidaria.
22. Briefly explain the characteristics of elasmobranchii

(5 x 7 = 35)

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. Briefly explain the geography and faunal diversity of western ghats.
25. Briefly explain the classes under Platyhelminthes. Add on its adaptive features.
26. Explain the salient features of class amphibian and reptilia. Brief on their classification

(12 x 2 = 24)