



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – APRIL 2018

17PZO1MC02- BIOSYSTEMATICS

Date: 02-05-2018
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

PART A (Answer ALL the Questions)

10 x 2 = 20

1. Comment on "speciation".
2. Comment on "starting point of nomenclature".
3. Differentiate sympatric and allopatric species.
4. Differentiate taxonomy from systematics.
5. Differentiate synonymy from homonymy.
6. Expand IUCN, CITES, ZSI and GSI.
7. Mention the law of priority in taxonomy.
8. Mention the characteristics of a taxonomic key.
9. What is called a cladogram?
10. What is called a tautonym? Give example.

PART B (Answer FOUR Questions)

4 x 10 = 40

11. Discuss the applications of taxonomy in theoretical and applied biology.
12. Explain the objectives and challenges of taxonomists.
13. Write an account on the rise of taxonomy.
14. Write an essay on species concepts.
15. Form an essay on taxonomic publications.
16. Explain the types of taxonomic keys.

PART C (Answer TWO Questions)

2 x 20 = 40

17. Write notes on the following
 - a) Animal collection
 - b) Data collection
 - c) Preservation of collected material
 - d) Curating
18. Write notes on the following
 - a) Preparation of specimen
 - b) Relaxing insects

- c) storage
- d) cataloging of specimen

19. Write notes on the following

- a) Arrangement of specimen
- b) Maintaining the quality of collection
- c) Identification methods
- d) Problems encountered in identification

20. Explain the components of classification.
