

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



**M.Sc.DEGREE EXAMINATION –ZOOLOGY**

**FIRST SEMESTER – NOVEMBER 2018**

**18PZO1MC02– BIOSYSTEMATICS**

Date: 27-10-2018

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

**Part A (Answer ALL the Questions) 10 x 2 = 20 marks**

1. Comment on "starting point of nomenclature".
2. Comment on essentialism.
3. Differentiate montane species from insular species.
4. Differentiate sympatric and allopatric species.
5. Differentiate karyotype from ideogram.
6. Expand IUCN, CITES, ZSI and GSI.
7. Mention the contributions of Aristotle to taxonomy.
8. Mention the name of four exotic species.
9. Mention where the suffixes I, orum, ae and arum are to be used.
10. What is a sibling species?

**Part B (Answer any FOUR Questions) 4 x 10 = 40 marks**

11. Write an account on preservation methods.
12. Explain the objectives and challenges of taxonomists.
13. Form an essay on newer trends in taxonomy.
14. Form an essay on taxonomic publications.
15. Explain the types of taxonomic keys.
16. Briefly explain the salient features of the 'code'.

**Part C (Answer any TWO Questions) 2 x 20 = 40 marks**

17. Discuss the applications of taxonomy in theoretical and applied biology.
18. Write notes on the following
  - a) Animal collection
  - b) Data collection
  - c) Preservation of collected material
  - d) Curating
19. Write an essay on species concepts.
20. Explain the components of classification.

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