



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

SECOND SEMESTER – APRIL 2022

PZO 2504 – ADVANCED EVOLUTIONARY BIOLOGY

Date: 22-06-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

Part – A

Answer ALL the Questions

(10x 2 = 20)

1. Comment on gradualism.
2. Comment on adaptive radiation.
3. Comment on putrefaction.
4. What are protocells?
5. Mention the importance of isotopes.
6. Comment on paleozoology.
7. Write a note on artificial selection.
8. Differentiate exon from intron.
9. Comment of desirable traits.
10. Comment on sibling species.

Part – B

Answer any FOUR Questions

(4 x 10 = 40)

11. Write an account on neo-Lamarckism.
12. Briefly explain the struggle for existence.
13. Write an account on the mechanism of fossil formation.
14. Briefly explain the classification of rocks.
15. Briefly explain types of natural selection.
16. Explain the consequences of hybridization on evolution.

Part – C

Answer any TWO Questions

(2 x 20 = 40)

17. Write an essay on neo-Darwinism.
18. Write an essay on evolution of prokaryotes and eukaryotes.
19. Form an essay on genetic polymorphism.
20. Discuss in detail the evolutionary consequences of eugenics, euthenics and euphenics.

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