



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

SECOND SEMESTER – APRIL 2018

17PZO2MC04- ADVANCED EVOLUTIONARY BIOLOGY

Date: 23-04-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART A (Answer ALL the Questions)

10 x 2 = 20

1. Write a note on '*Philosophie Zoologique*'.
2. Comment on Natural selection.
3. Differentiate homology from analogy.
4. Comment on amber.
5. Define allometry.
6. Differentiate epoch from era.
7. Write a note on point mutation.
8. Comment on Gene pool.
9. Comment of desirable traits.
10. Comment on adaptive radiation.

PART B (Answer FOUR Questions)

4 x 10 = 40

11. Write an account on neo-Lamarckism.
12. Write an account on Darwin's observations.
13. Bring out a comparative account on theory of special creation and theory of spontaneous generation.
14. Briefly explain the classification of rocks.
15. Briefly explain the theory of genetic drift.
16. Explain the consequences of hybridization on evolution.

PART C (Answer TWO Questions)

2 x 20 = 40

17. Discuss in detail the mutation theory of De Vries.
18. Discuss in detail how organisms evolved from the previously existing organisms with scientific evidences.
19. Write an essay on phyletic gradualism and punctuated equilibrium.
20. Form an essay on genetic polymorphism.

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