

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FOURTH SEMESTER – APRIL 2016

AZ 4505 – ORGANIC EVOLUTION

Date: 20-04-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

(10x2=20 marks)

Answer ALL the questions

1. Define Hardy Weinberg law.
2. What is Genetic drift?
3. Explain Cosmozoic theory.
4. Write a short note on Convergent evolution.
5. What is a Living fossil?
6. Define Neoteny.
7. Explain Sympatric speciation.
8. Define Abiogenesis.
9. Elaborate Müllerian mimicry with a suitable example.
10. What is HMS Beagle?

PART – B

(4x10=40 marks)

Answer any FOUR questions

11. Discuss in brief mutation theory.
12. Give an account of Lamarckism.
13. Explain the types of fossils and their significance.
14. Give an account on the adaptive radiation in placental mammals.
15. Draw the geological time scale.
16. Write an account on evolution and ethics.

PART - C

(2x20=40 marks)

Answer any TWO questions

17. Discuss Neo-Darwinism.
18. Write an essay on coloration & mimicry.
19. What is speciation? Explain the different modes of speciation.
20. Write an essay on Human Genome project.

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