

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FOURTH SEMESTER – APRIL 2018

AZ 4505– ORGANIC EVOLUTION

Date: 09-05-2018

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

Part – A

Answer all the questions:

(10X2=20 marks)

Define / Explain the following:

1. Abiogenesis
2. Hardy Weinberg law
3. Genetic death
4. Cosmozoic theory
5. Allopatric species
6. Living fossil
7. Neoteny
8. Sympatric speciation
9. Biogenetic Law
10. Müllerian mimicry

Part – B

Answer any four questions:

(4X10=40 marks)

11. Explain the Lamarckian principles.
12. Explain the types of fossils and their significance
13. Give an account on adaptive radiation in placental mammals
14. Tabulate geological time scale
15. Write an account on evolution and ethics
16. Write notes on vestigial organs

Part- C

Answer any two questions:

(2X20=20 marks)

17. Highlight the modern concepts of Mutation.
18. Write an essay on colouration & mimicry
19. What is speciation? Explain the different modes of speciation
20. Write an essay on Eugenesis
