



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FOURTH SEMESTER – APRIL 2017

AZ 4504- EVOLUTION

Date: 25-04-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART A

Answer **ALL** questions, each in a few words (**10X2=20 Marks**)

1. What is HMS beagle ?
2. Define the theory of Pangenesis.
3. What is Sewall Wright effect ?
4. Comment on cosmozoic theory.
5. What is meant by premating isolating mechanism ?
6. Define convergent evolution.
7. Comment on Myrmecophagous type of dentition.
8. Give the significance of Australopithecus.
9. What is stratigraphy?
10. Define Orthogenesis.

PART B

Answer any **FOUR** questions, each in about two pages

(4X10=40 Marks)

11. Explain Urey-Miller experiment.
12. Write notes on Human Genome Project.
13. Give an account on Lamarckism.
14. Describe the dating of fossils and their significance.
15. Explain homologous and analogous organs with examples.
16. Write notes on Convergence and Parallelism.

PART C

Answer any **TWO** QUESTIONS, each in about four pages (**2X 20 = 40 Marks**)

17. What is Speciation? Explain the different modes of speciation.
18. Write an essay on Eugenics.
19. Give a detailed account of Colouration and Mimicry.
20. Discuss the adaptive radiation in reptiles.
