

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

THIRD SEMESTER – APRIL 2022

UAZ 3504 – EVOLUTIONARY BIOLOGY

Date: 21-06-2022

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

Part-A

Answer ALL the questions

(10×2=20 Marks)

1. What is primordial earth?
2. Comment on genetic drift.
3. Differentiate homologous and analogous organs.
4. Write a note on *Systema Naturae*.
5. Define natural selection.
6. Comment on golden age of reptiles.
7. State the theory of biogenesis.
8. What are mummies?
9. Define Allopatric speciation.
10. List out any five vestigial organ in human.

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. Explain chemical origin of life.
12. Give an account of Lamarkism and Darwinism.
13. Describe the geological time scale.
14. What is Hardy-Weinberg equilibrium write the factors affecting it?
15. Give an account on Cenozoic era.
16. Describe the evidences of evolution.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Write an essay on the stages of human evolution.
18. Describe the adaptive radiation in reptiles and mammals.
19. Justify and analyze the evolution of Horse.
20. Write an essay on fossils and evolution.
