

Reg. No

Name

26U515-S

B. Sc. DEGREE END SEMESTER (SAY) EXAMINATION - MAY 2026

SEMESTER 5 : ZOOLOGY

COURSE : 19U5CRZOO07 - EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY

(For Supplementary (SAY) 2023 Admissions)

Time : Three Hours

Max. Marks: 60

PART A

Answer All (1 mark each)

1. What are barriers in animal distribution?
2. What is the geographical limit of Palaearctic Realm?
3. Weismann cut off the tails of mice continuously for how many generations to disprove Lamarckism?
4. What are vestigial organs?
5. Define an era?
6. Give the significance warbler finches?
7. Name the scientists who shared the Nobel Prize in 1972-73 for their contribution to ethology.
8. What do you mean by Darwinian fitness?

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. What are micelles?
10. Comment on the climatologic and geographic features of Ethiopian Realm.
11. What is a mass extinction?
12. Enlist the aspects of classification of animal distribution.
13. Name the Eocene horses.
14. Interpret the term constant progression by Lamarck?

15. What is filial imprinting?

16. What is founder effect?

(2 x 6 = 12)

PART C

Answer any 4 (4 marks each)

17. Why evolution is not considered as an intelligent mechanism? Explain the basis of Darwinian postulates.

18. Describe the experiment conducted by Thorndike to demonstrate Operant Conditioning.

19. Brief on the Oparin - Haldane theory.

20. Discuss the zoogeography of Galapagos Islands.

21. Give an account on discontinuous distribution with examples.

22. Could you provide an explanation of the term "mutation" and offer examples of different types of mutations?

(4 x 4 = 16)

PART D

Answer any 2 (12 marks each)

23. Animals are distributed in widely separated areas. Discuss the statement focusing on animal distribution.

24. What do you mean by geological dating? Explain its uses and different methods employed.

25. Explain adaptive radiation with the help of Darwin's finches and limb structure of mammals.

26. Give an account of insular fauna.

(12 x 2 = 24)

