Reg. No ....   Name **22U542**

B. Sc. DEGREE END SEMESTER EXAMINATION : OCTOBER 2022
SEMESTER 5 : ZOOLOGY
COURSE : **19U5CRZOO07 : EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY**
(For Regular - 2020 Admission and Supplementary - 2019 Admission)

Time : Three Hours   Max. Marks: 60

PART A
Answer All (1 mark each)

1. Define Mendelian population
2. Enlist the events occurred in Mesozoic era.
3. What does the term homology mean?
4. Explain how 'classical conditioning' got its name
5. Who initiated the experimental study of instrumental behaviour?
6. What is the geographical limit of Nearctic Realm?
7. Which are the various headings under which distribution of animals are discussed?
8. What is Cenozoic era?

(1 x 8 = 8)

PART B
Answer any 6 (2 marks each)

9. Evaluate fore limb in vertebrate as an example of vestigial organs
10. Comment on the climatologic and geographic features of Ethiopian Realm
11. Differentiate between positive reinforcer and negative reinforcer in Operant Conditioning citing suitable examples
12. Point out the disimilarity between gene frequency and genotype frequency
13. Identify the defining features of megaevolution
14. Comment on continuous distribution
15. Compare variation and adaptation
16. Recognize the defining features of dawn horse

(2 x 6 = 12)

PART C
Answer any 4 (4 marks each)

17. Evaluate Miller - Urey experiment as an evidence for biochemical origin of life
18. Describe the means of animal distribution
19. Analyze the phylogenetic sequence of horse evolution. Add notes on its evolutionary trends
20. Differentiate microevolution and megaevolution
21. Give an account of human pheromones
22. Evaluate critically the lamarckism with examples

(4 x 4 = 16)

PART D
Answer any 2 (12 marks each)

23. Prepare an essay on the different stages involved in the horse evolution. Add notes on the causes for its evolutionary trends

24. What are Darwin finches? Establish the Darwin finches as an example for adaptive radiation

25. Enumerate the factors affecting on Darwinism. Differentiate Darwinism and Lamarckism

26. Give a detailed account of Nearctic and Neotropical Realms

(12 x 2 = 24)