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Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024

2022 ADMISSIONS REGULAR

SEMESTER V - CORE COURSE (ZOOLOGY)

ZY5B07B18 - Evolution, Ethology and Zoogeography

Time : 3 Hours

Maximum Marks : 60

Part A

I. Answer any Ten questions. Each question carries 1 mark

(10x1=10)

1. Explain Picnic hypothesis.
2. Define protocell.
3. Distinguish between germplasm and somatoplasm.
4. Explain survival of the fittest.
5. Define sibling species.
6. What is adaptive radiation?
7. What is parapatric speciation?
8. Explain imprinting.
9. Describe taste aversion.
10. Name the four castes of an ant colony.
11. Comment on zoogeographical realms.
12. Name any four biogeographic zones in India.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Explain the Supplementary theories of Darwin.
14. Explain the criticisms against Lamarckism.
15. Give an account on theory of natural selection with special reference to criticisms against Darwinism.
16. Explain the role and significance of isolating mechanisms in evolution.
17. Write an account on macroevolution and megaevolution.
18. Write a note on hibernation and aestivation.
19. Write a note on different social groups among primates.
20. Write a note on fauna of Indian region.
21. Write a short essay on Palaearctic region.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

22. Give an account on biological evolution of life. Write a note on Miller Urey experiment.
23. Describe adaptive radiation in mammals .
24. Define learning. Describe three types of cognitive learning with the help of examples.
25. Describe various means of animal distribution.