

TB2459790

15/10/24 .  
Reg. No : .....

Name : .....

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024  
2018, 2019, 2020, 2021 ADMISSIONS SUPPLEMENTARY  
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 the theory of Panspermia.
2. Explain coprolites.
3. Explain the theory of inheritance of acquired characters.
4. Distinguish between germplasm and somatoplasm.
5. Define sibling species.
6. Write any two adaptations of the modern horse.
7. Comment on hybrid inviability with a suitable example.
8. Describe taste aversion.
9. What is circadian rhythm?
10. Explain the genetic theory and trophic theory of formation of castes in insects.
11. Comment on the climate of India.
12. What is Weber's line?

**Part B**

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

**(6x5=30)**

13. Describe founder effect.
14. Explain the factors that upset Hardy Weinberg equilibrium.
15. Write an account on Neo-Darwinism.
16. Write an account on macroevolution and megaevolution.
17. Briefly explain on Geological time scale.
18. Explain in detail about the branches of ethology.
19. Write an account on social organization in mammals.
20. Write an account on oriental region.
21. Write a short essay on Palaearctic region.

**Part C**

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

**(2x10=20)**

22. Explain the various evidences of evolution.
23. Give a detailed account on mass extinction.
24. Give an account on different types of pheromones and their effect on behaviour.
25. Explain the various physical and biological barriers of animal distribution.

