

TB205485V

Reg. No :

Name :

B. Sc. DEGREE (C.B.C.S.) EXAMINATION, NOVEMBER 2022
2020 ADMISSIONS REGULAR AND 2019, 2018 ADMISSIONS SUPPLEMENTARY
SEMESTER V - CORE COURSE (ZOOLOGY)
ZY5B07B18 - EVOLUTION, ETHOLOGY & ZOOGEOGRAPHY

Time : 3 Hours

Maximum Marks : 60

Part A

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

(10x1=10)

1. Explain coprolites.
2. What is endosymbiosis?
3. Differentiate between intraspecific and interspecific struggle.
4. Explain the theory of inheritance of acquired characters.
5. Comment on true speciation and its types.
6. What is parapatric speciation?
7. List any four general characteristics of species.
8. Define Habituation.
9. Explain imprinting.
10. Define monogamy and polygamy.
11. Comment on zoogeographical realms.
12. Write any four endemic organisms in Western Ghats.

Part B

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

(6x5=30)

13. Explain Weismann's theory of germplasm.
14. Explain bottleneck effect.
15. Give an account on theory of natural selection with special reference to criticisms against Darwinism.
16. Explain adaptive radiation in Darwin's finches.
17. Write a note on quantum speciation.
18. Write a note on hibernation and aestivation.
19. Write an account on social organization in mammals.
20. Write an account on oriental region.
21. Write a note on Nearctic region.

Part C

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

(2x10=20)

22. Write an essay on the origin of universe and earth.
23. Give a detailed account on mass extinction.
24. Write an essay on different types of biological rhythms.
25. Explain the various physical and biological barriers of animal distribution.