

TB245491Z

Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S.) EXAMINATION, FEBRUARY 2024
2021 ADMISSIONS SUPPLEMENTARY (SAY)
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. Distinguish between homologous and analogous organs.
2. Define protocell.
3. Define gene pool.
4. Explain the theory of inheritance of acquired characters.
5. What is parapatric speciation?
6. Write any two adaptations of the modern horse.
7. Comment on true speciation and its types.
8. Distinguish between endogenous and exogenous rhythms.
9. Define Habituation.
10. Name the four castes of an ant colony.
11. What is Weber's line?
12. Comment on Wallacea.



Part B

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

(6x5=30)

13. Give an account on Hardy Weinberg equilibrium.
14. Write an account on Darwinism.
15. Explain Weismann's theory of germplasm.
16. Explain the hypothesis of punctuated equilibria.
17. Briefly explain on Geological time scale.
18. Explain in detail about the branches of ethology.
19. Explain the social organization in ants.
20. Give an account on Western Ghats.
21. Write a note on fauna of Indian 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. Comment on adaptive radiation with special reference to adaptive radiation in mammals and tooth radiation in mammals.
24. Define learning. Describe three types of cognitive learning with the help of examples.
25. Explain the various physical and biological barriers of animal distribution.

