23110694

QP CODE: 23110694

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATIONS, APRIL 2023

Fifth Semester

CORE COURSE - ZY5CRT07 - EVOLUTION, ETHOLOGY & ZOOGEOGRAPHY

Common for B.Sc Zoology Model I, B.Sc Zoology Model II Aquaculture, B.Sc Zoology Model II Food Microbiology, B.Sc Zoology Model II Medical Microbiology, B.Sc Biological Techniques and Specimen Preparation Model III & B.Sc Zoology and Industrial Microbiology Model III Double Main

2020 Admission Only

1C9E846B

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Name the two cell organelles that are believed to be evolved according to endosymbiotic theory.
2. What is microsphere?
3. What are analogous organs?
4. What is genetic drift?
5. Define species.
6. Define speciation.
7. What is meant by mass extinction?
8. What is insight learning?
9. What is reciprocation?
10. What is polygyny?
11. What are zoogeographic realms?
12. Name any two biodiversity hot spots in India.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. How are fossils formed? Analyze the significance of fossils in studying evolution.
14. Comment on germplasm theory.
15. Comment on Neo- Darwinism.
16. List out and explain the different types of reproductive isolation mechanism.
17. Write notes on microevolution and megaevolution with examples.
18. Write a short account on ecology and behaviour.
19. What is aggression? Comment on the influence of hormones on different forms of aggression.
20. Distinguish between oceanic and continental islands.
21. Comment on Wallcea.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Elaborate on Lamarck's theory of organic evolution and its criticsms.
23. Write an essay on evolution of horses.
24. Write an essay on the contributions of I P Pavlov, Humprey, B F Skinner and Edward C Tolman in ethology.
25. Explain with examples, the various kinds of distribution exhibited by animals.

(2×10=20)