25006026

Reg No : ....

Name : ....

B.Sc DEGREE (CBCS) SPECIAL REAPPEARANCE EXAMINATIONS, FEBRUARY 2025

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

2022 Admission Only

4FE90661

Time: 3 Hours   Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Comment on cosmozoic theory of evolution.

2. What is microsphere?

3. Cite an example for homologous organ.

4. What is founder effect?

5. Define sub species.

6. Define microevolution.

7. Write any two characteristics of Equus.

8. Write an example for conditioned reflex.

9. Define homing instinct.

10. Name two hormones that controll copulatory behaviour in human male.

11. What are zoogeographic realms?

12. Define Weber's line.

(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 a brief account on panctuated equilibrium.

18. Comment on human pheromones and their role in sexual behaviour.

19. Mention different strategies for navigation.

20. Distinguish between oceanic and continental islands.

21. Briefly explain the various threats faced by Western Ghats.

(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 criticisms.

23. Define Speciation. What are the different types of speciation?

24. Explain the scope of ethology and its role in animal life, environment and evolution.

25. Write an essay on the various means of animal dispersal.

(2×10=20)