QP CODE: 23131671

23131671

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, OCTOBER 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

2017 Admission Onwards

4CCC661E

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. Expand LUCA.
3. What is paleontology?
4. Which theory was disproved by Weismann's germplasm theory?
5. Define cline.
6. Define geographic isolation.
7. Define microevolution.
8. Define ethology.
9. What is circadian rhythm?
10. What is reciprocation?
11. Define Zoogeography
12. Define Weber's line

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Differentiate between homologous and analogous organs with examples.

14. Analyse the major criticisms of Lamarckism.

15. List out and explain the factors affecting gene frequency.

16. Write notes on true speciation.

17. Explain adaptive radiation with reference to Darwin's finches.

18. What is latent learning? Explain the concept by giving an experimental evidence.

19. Explain different types of social behavioural patterns in animals.

20. Write notes on the topographical barriers in animal distribution.

21. Comment on the ecological significance of Western Ghats.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Elaborate on Neo - Darwinian concept and its criticisms.

23. Write an account on geological time scale.

24. What are pheromones? Explain various types of pheromones and their role in animal behaviour.

25. Write an essay on the geographic limits, physical features and Faunal distribution of Ethiopian realm.

(2×10=20)