QP CODE: 24031598

24031598

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

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

F68FE121

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Define the theory of special creation.
2. What is primordial soup?
3. What is paleontology?
4. What is germplasm theory?
5. Define species.
6. Define megaevolution.
7. Define macroevolution.
8. Define ethology.
9. Define latent learning.
10. Define homing instinct.
11. What is Disjunctive animal distribution?
12. What are Hotspots?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Write notes on recapitulation theory.

14. Analyse the theory of natural selection.

15. Elaborate the effect of genetic drift on population.

16. Differentiate between allopatric and sympatric speciation.

17. What is meant by mass extinction? Add notes on the major mass extinctions identified throughout the earth's history.

18. What are signalling pheromones? Comment on its behavioral responses.

19. Write a short account on sociobiology.

20. Comment on the faunal affinities existing between Palaearctic and Nearctic realms.

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. Define isolation. What are the different types of isolation mechanisms? Mention its significance in evolution.

24. Write an essay on the importance of courtship behaviour and various reproductive strategies to maximise genetic contribution in sexually reproducing animals.

25. Write an essay on the barriers controlling animal distribution.

(2×10=20)