



21100088

QP CODE: 21100088

Reg No :

Name :

BSc DEGREE (CBCS) EXAMINATION, FEBRUARY 2021

Fifth Semester

Core Course - ZY5CRT07 - EVOLUTION, ETHOLOGY & ZOOGEOGRAPHY

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

2017 Admission Onwards

B6B76DE4

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Give an example supporting the theory of spontaneous generation.
2. Cite an example for homologous organ.
3. What is carbon dating?
4. Which was the experiment conducted by Weismann to disprove inheritance of acquired characters?
5. Name the scientist who proposed the Biological species concept.
6. Define megaevolution.
7. What is adaptive radiation?
8. What is insight learning?
9. What is eusociality?
10. What is promiscuity?
11. What is Disjunctive animal distribution?
12. Name the "island of relics"

(10×1=10)





Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Write down the concept and the significance of Urey-Miller's experiment.
14. Summarize the main postulates of Lamarck.
15. Elaborate the effect of genetic drift on population.
16. Differentiate between allopatric and sympatric speciation.
17. Write a brief account on punctuated equilibrium.
18. Write a short account on ecology and behaviour.
19. Explain operent learning with skinner box experiment.
20. Comment on the faunal affinities existing between Palaearctic and Nearctic realms
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 Neo - Darwinian concept and its criticisms.
23. Define isolation. What are the different types of isolation mechanisms? Mention its significance in evolution.
24. What are pheromones? Explain various types of pheromones and their role in animal behaviour.
25. Write an essay on different types of island with special emphasis on its faunal characteristics

(2×10=20)

