



QP CODE: 20100088

Reg No :

Name :

BSc DEGREE (CBCS) EXAMINATION, FEBRUARY 2020

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
CF1062C4

Time: 3 Hours

Maximum 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. Expand LUCA.
3. Who proposed the theory of recapitulation?
4. Who proposed mutation theory?
5. What is allopatric speciation?
6. Define geographic isolation.
7. Which mass extinction is responsible for the extinction of dinosaurs?
8. Define ethology.
9. Give an example for altruism.
10. Define territoriality.



11. What is the theory of Continental drift?
12. What is a Mega diversity nation?

(10×1=10)

Part B

Answer any six questions.

Each question carries 5 marks.

13. Define fossils. What are the different kinds of fossils?
14. Analyse the major criticisms of Lamarckism.
15. What is genetic drift? Add notes on Bottle neck effect and founder effect.
16. Define species. What are the major sub divisions of species.
17. Write notes on microevolution and megaevolution with examples.
18. Comment on human pheromones and their role in sexual behaviour.
19. Explain polygamy as a reproductive strategy.
20. Comment on the ecological barriers in animal distribution
21. Comment on the faunal affinities existing between Palaearctic and Nearctic realms

(6×5=30)

Part C

Answer any two questions.

Each question carries 10 marks.

22. Evaluate the various aspects of Darwinian theory of natural selection. Add notes on critical analysis of Darwinism.
23. Write an essay on evolution of horses.
24. Write an essay on learning.
25. Write an essay on the geographic limits, physical features and faunal distribution of Australian realm.

(2×10=20)



