



19102487

QP CODE: 19102487

Reg No :
Name :

BSc DEGREE (CBCS) EXAMINATION, OCTOBER 2019
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.B.Sc Zoology Model II Food Microbiology

2017 Admission Onwards

D024630D

Maximum Marks: 60

Time: 3 Hours

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. What is coacervate?
3. What are homologous organs?
4. Define Hardy Weinberg Equilibrium.
5. Define sibling species
6. What is sympatric speciation?
7. Define microevolution.
8. Define latent learning.
9. What is taste aversion?
10. What is promiscuity?
11. Which is the largest zoogeographic realm?
12. Name the “island of archaic mammals”

(10×1=10)





Part B

Answer any six questions.

Each question carries 5 marks

13. Explain carbon dating method.
14. Comment on germplasm theory.
15. Comment on Neo- Darwinism.
16. Explain adaptive radiation with reference to Darwin's finches.
17. What is meant by mass extinction? Add notes on the major mass extinctions identified throughout the earth's history.
18. Explain associative learning by citing the experiments of I.P Pavlov.
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 isolation. What are the different types of isolation mechanisms? Mention its significance in evolution.
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)

