



QP CODE: 22100088



22100088

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS ) REGULAR / REAPPEARANCE EXAMINATIONS,  
JANUARY 2022  
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

FD157DD7

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. Why did Haldane refer the primitive water bodies as "hot dilute soup"?
3. Give an example for analogous organ.
4. What is germplasm theory?
5. Cite an example for geographic isolation.
6. Write any two characteristics of Equus.
7. Which era is known as "Age of reptiles"?
8. What is conditioned stimulus?
9. What are alarm pheromones?
10. What is reciprocation?
11. What is disjunctive animal distribution?
12. Define Wallacea.

(10×1=10)

**Part B**

*Answer any **six** questions.*

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





13. How are fossils formed? Analyze the significance of fossils in studying evolution.
14. Comment on "Struggle for existence". Differentiate between intraspecific and interspecific struggle.
15. List out and explain the factors affecting gene frequency.
16. Define species. What are the major sub divisions of species.
17. Write notes on microevolution and megaevolution with examples.
18. Comment on biological rhythms in animals.
19. Explain the concept 'primates and human socio groups'.
20. Write notes on the topographical barriers in animal distribution.
21. Write notes on the geographic limits, and physical features of Oriental realm.

(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 Speciation. What are the different types of speciation?
24. Explain the scope of ethology and its role in animal life, environment and evolution.
25. Write an essay on the bio geographic zones of India with special reference to its faunal distribution.

(2×10=20)

