

B. SC. DEGREE (C.B.C.S.S) EXAMINATION, JANUARY 2019
(2016 Admission Supplementary)
SEMESTER V - CORE COURSE(ZOOLOGY)
ZY5B07TB - EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY

Time : 3 Hours

Maximum Marks : 60

Part A**I. Answer all questions. Each question carries 1 marks****(5x1=5)**

1. Distinguish between micro evolution and macro evolution.
2. What is natural selection?
3. Comment on bipolar distribution. Give an example.
4. Comment on behavioural ecology.
5. Give an account on Ecophysiology.

Part B**II. Answer any Five questions. Each question carries 2 marks****(5x2=10)**

6. What are the major evolutionary trends happened during the evolution of horse?
7. Differentiate between continuous and discontinuous variation.
8. Comment on tooth radiation in mammals.
9. Write notes on Sewall Wright effect .
10. Comment on Indian sub regions.
11. Discuss briefly on the theory of continental drift.
12. Describe Altruism and Cooperation.
13. Write notes on learning set learning.

Part C**III. Answer any Five questions. Each question carries 5 marks****(5x5=25)**

14. Define mutation. Write notes on types of chromosomal aberrations.
15. Write an account on Mutation theory with special reference to its salient features, evidences, and criticisms.
16. Write an account on dating of rocks.
17. Give an account on oriental region.
18. Describe the factors affecting distribution of animals.
19. Describe classical conditioning. Add points on Pavlov's experiment.
20. Write a short essay on human pheromones and its significance.
21. Give an account on Sociobiology.

Part D**IV. Answer any Two questions. Each question carries 10 marks****(2x10=20)**

22. What is Hardy Weinberg equilibrium? Give an account on the various factors which upset this equilibrium.
23. Write an essay on Speciation.
24. Write an essay on Western ghats, its fauna and significance.
25. Write an essay on imprinting. Add notes on human pheromones and its significance .