

**B. Sc. DEGREE (C.B.C.S.S) EXAMINATION, OCTOBER 2018**  
**(2016 Admission Regular & 2015 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. Comment on local adaptive branching with one example.
2. Comment on abiogenesis.
3. Comment on Isthmus of Panama.
4. Define Ecoethology.
5. Comment on Altruism. Give an example.

**Part B**

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

6. What are coacervates?
7. Explain the theory of Panspermia.
8. Write notes on sexual selection theory.
9. Explain theory of Pangenesis.
10. Explain natural rafts and drift woods as means of animal distribution.
11. Discuss briefly on the theory of continental drift.
12. Comment on Pavlov's experiment.
13. Distinguish between habituation and sensitization.

**Part C**

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

14. What is adaptive radiation? Explain with special reference to Darwin's finches.
15. Give an account on chemical evolution.
16. Give an account on evolution of man.
17. Write a short essay on Palaearctic region.
18. Comment on Zoo geographic realms. Add notes on Australian realm.
19. Describe classical conditioning. Add points on Pavlov's experiment.
20. Give an account on Sociobiology.
21. Give an account on ecology of relationship with special reference to dominance and competition.

**Part D**

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

22. Explain horse evolution as a typical example of orthogenesis.
23. Write an essay on Mutation and its types.
24. Comment on the various continental and oceanic islands.
25. Write an essay on various types of learning.