

TB145770A

Reg. No.....

Name.....

**B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2016**  
**SEMESTER V - ZOOLOGY**  
**ZOO5EZE - EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY**

**Time: Three Hours**

**Maximum Marks: 60**

**PART A**

**I. Answer all questions. Each question carries 1 mark.**

1. Comment on protobiont
2. What are mutations?
3. Define gene pool
4. What is meant by microevolution?
5. Comment on the significance of Western Ghats
6. Define the term imprinting
7. What is meant by competition?
8. What are pheromones?

**(8x1=8)**

**PART B**

**II. Answer any six questions. Each question carries 2 marks.**

9. Explain the theory of panspermia
10. Explain the role of variations in evolution
11. Distinguish between gene and chromosomal mutations
12. Explain the hypothesis of punctuated equilibrium
13. Write a note on carbon dating
14. Write a note on continental drift theory
15. What is meant by isolated distribution? Cite an example
16. Give a note on latent learning
17. Explain altruism with a suitable example
18. Explain the role of natural selection in the evolution of behaviour

**(6x2=12)**

**PART C**

**III. Answer any four questions. Each question carries 4 marks.**

19. Explain the theory of use and disuse with suitable examples
20. Describe the salient features of Eocene horses
21. Discuss the major mass extinctions in the evolutionary history
22. Discuss the factors affecting animal distribution
23. Give an account on classical conditioning
24. Explain the concept of dominance

**(4x4=16)**

#### **PART D**

**IV . Answer any two questions. Each question carries 12 marks.**

25. Explain Haldane –Oparin theory and its experimental validation by Urey-Miller
26. What is Hardy Weinberg equilibrium? Give an account on the factors that upset the equilibrium
27. Explain the types of speciation
28. Write an essay on various zoogeographical realms

**(2x12=24)**