

B.Sc. DEGREE END SEMESTER EXAMINATION OCTOBER 2017**SEMESTER –5: ZOOLOGY (CORE COURSE)****COURSE: 15U5CRZOO07: EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY***(For Regular 2015 admission)*

Time: Three Hours

Max. Marks: 60

*Instructions:**1. Time allotted for the examination is 3 Hours**2. Answer **all** questions in part A. Answer **any 6** questions from part B, **any 4** from part C and **any 2** from part D.***PART A**

1. Who proposed big bang theory?
2. What is spontaneous generation?
3. Who coined the term Neo Lamarckism?
4. Who is the author of the book 'Darwinism'?
5. What is allopatric speciation?
6. Which island is known for the occurrence of lemurs?
7. What is the geographical limit of neotropical realm?
8. Who are recognized as the Fathers of Ethology?

(1 x 8 = 8)**PART B**

9. Briefly explain mutation theory.
10. What is Hardy Weinberg equilibrium?
11. What is the theory of Panspermia?
12. Comment on mega evolution.
13. What is geological dating?
14. Briefly explain human pheromones
15. Comment on continental drift
16. What are the features of Miohippus?

(2 x 6 = 12)**PART C**

17. Comment on mass extinctions.
18. Describe Urey - Miller experiment.
19. Differentiate between micro and macro evolution
20. Comment on modern synthetic theory
21. Briefly explain latent learning
22. Comment on the biodiversity value of Western Ghats

(4 x 4 = 16)**PART D**

23. Write an essay on adaptive radiation with special reference to mammals
24. Give an account of different types of learning
25. Describe in detail the various zoogeographical realms
26. Write an essay on geological time scale

(12 x 2 = 24)