

**B.Sc. DEGREE END SEMESTER EXAMINATION OCTOBER/NOVEMBER 2018****SEMESTER –5: ZOOLOGY (CORE COURSE)****COURSE: 15U5CRZOO07: EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY***(Common for Regular 2016 admission & Supplementary 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. Comment on HMS Beagle
2. What is the theory of Panspermia?
3. Who proposed germplasm theory?
4. What is aneuploidy?
5. Comment on infanticide behaviour in primates
6. What are Darwin's finches?
7. What is the geographical limit of ethiopian realm?
8. What are the various periods in the Mesozoic era? (1 x 8 = 8)

**PART B**

9. Briefly explain gene mutations.
10. What is spontaneous generation?
11. Briefly explain neutral theory of molecular evolution.
12. Comment on macro evolution.
13. What is geological time scale?
14. Briefly explain human pheromones
15. List out the factors affecting animal distribution
16. Comment on continental Islands? (2 x 6 = 12)

**PART C**

17. Comment on the different theories of the origin of universe.
18. Briefly describe the different aspects of Darwinism.
19. Differentiate between allopatric and sympatric speciation.
20. Comment on adaptive radiation in mammals
21. What are the different kinds of animal distribution?
22. Comment on the biodiversity value of Western Ghats (4 x 4 = 16)

**PART D**

23. Write an essay on the evolution of horse
24. Give an account of different types of learning
25. Write an essay on the biogeography of India
26. Give an account on the factors affecting gene frequencies (12 x 2 = 24)

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