

B.Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER/NOVEMBER 2018**SEMESTER –5: ZOOLOGY (CORE COURSE)****COURSE: U5CRZOO7: EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY***(For Supplementary 2014 - admission)*

Time: Three Hours

Max. Marks: 60

PART A*Answer all questions. Each question carries 1 mark.*

1. What are coacervates?
2. What are endemic species?
3. Which is the "Bird continent"? Why is it described so?
4. What is Founder effect?
5. What is Sewall Wright effect?
6. What is Wallace line?
7. Name the zoogeographical realms of the 'new world'
8. Differentiate between homologous organs and analogous organs. (1 x 8 = 8)

PART B*Answer any Six questions. Each question carries 2 marks.*

9. What is Radiometric dating?
10. What is gene pool? How does it affect evolution?
11. Differentiate between continental islands and oceanic islands with suitable examples
12. What is latent learning?
13. Differentiate between phyletic speciation and true speciation.
14. Comment on supplementary theories of Darwin.
15. Explain adaptive radiation with suitable example.
16. What is Hardy Weinberg's Equilibrium? (2 x 6 = 12)

PART C*Answer any Four questions. Each question carries 4 marks.*

17. Explain discontinuous distribution with example. What are the possible causes for discontinuous distribution?
18. Write a short note on barriers in animal distribution.
19. Write a short note on Modern Synthetic theory of evolution.
20. Write an account on Behavioral Ecology
21. Briefly explain macroevolution. Mention its essential features
22. Briefly explain Adaptive radiation with example. (4 x 4 = 16)

PART D*Answer any Two questions. Each question carries 12 marks.*

23. Explain Darwinism. Add a note on critical analysis of Darwin's theory.
24. Write an essay on different types of learning in animals.
25. Write an essay on Evolution of Horse
26. Explain Oparin Haldane's theory on "Origin of life". Add a note on the experimental evidence in support of Oparin's theory. (12 x 2 = 24)
