B.SC. DEGREE END SEMESTER EXAMINATION OCTOBER 2016
SEMESTER – 5: ZOOLOGY (CORE COURSE)
COURSE: **U5CRZOO7– EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY**

Time: Three Hours   Max. Marks: 60

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

1. Why is Australian region called the 'the island of relics'?
2. What is Biological Species Concept.
3. What are coacervates?
4. What is Sewall Wright effect?
5. Differentiate between homologous organs and analogous organs.
6. What is panmictic population?
7. What is geological time scale?
8. What is Wallace line?   (1 x 8 = 8)

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

9. Differentiate between continental island and oceanic island.
10. What is Radiometric dating?
11. What is the significance of Galapagos Island with regard to evolution.
12. What is Bathymetric distribution of animals?
13. Explain adaptive radiation with suitable example.
14. What is latent learning?
15. Briefly explain Theory of Panspermia.
16. What is punctuated 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 Mass Extinction.
19. Briefly explain macroevolution. Mention its essential features.
20. Write a short note on Modern Synthetic theory of evolution.
21. Write a brief note on faunal peculiarities of Australian subregion.
22. Briefly explain the factors affecting Hardy Weinberg's Equilibrium.   (4 x 4 = 16)

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

23. Write an essay on different types of learning in animals.
24. Write an essay on evolution of Horse.
25. Explain Oparin Haldane's theory on "Origin of life". Add a note on the experimental evidence in support of Oparin's theory.
26. Briefly explain the main Biogeographical zones in India. Add a note on biogeography of India with special reference to Western Ghats.   (12 x 2 = 24)