

Reg. No.....

Name.....

**B.Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2019****SEMESTER – 5: ZOOLOGY (CORE COURSE)****COURSE: U5CRZOO7: EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY***(For Supplementary 2014 Admissions)*

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. Define semiochemicals.
3. What is Sewall Wright effect?
4. Which are the sources of variation
5. What is panmictic population?
6. What is Founder effect?
7. Name the zoogeographical realms of the 'new world'
8. What are sibling species?

**(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. Comment on supplementary theories of Darwin.
12. Differentiate between phyletic speciation and true speciation.
13. What is Hardy Weinberg's Equilibrium?
14. Comment on the scope of ethology
15. Explain adaptive radiation with suitable example.
16. What is punctuated equilibrium?

**(2 x 6 = 12)****PART C***Answer **any Four** questions. Each question carries **4** marks.*

17. Write a short note on Mass Extinction.
18. Briefly explain the Haldane - Oparin theory.
19. Write a short note on Modern Synthetic theory of evolution.
20. What are Lamarck's views on evolution? Briefly explain the critical analysis on Lamarckism.
21. Write a brief note on faunal peculiarities of Australian subregion.
22. Briefly explain macroevolution. Mention its essential features

**(4 x 4 = 16)**

**PART D**

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

23. Write an essay on evolution of Horse.
24. Write in detail about Types and Means of Animal Distribution
25. Briefly explain the main Biogeographical zones in India. Add a note on biogeography of India with special reference to Western Ghats.
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)

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