

B. Sc. DEGREE END SEMESTER EXAMINATION OCT. 2020: JANUARY 2021**SEMESTER –5: ZOOLOGY (CORE COURSE)****COURSE: 15U5CRZOO07: EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY**

(Common for Regular 2018 admission & Improvement 2017/Supplementary 2017 /2016/2015 admissions)

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. Theory of Biogenesis
2. Coacervates
3. Define Gene pool
4. What is Aneuploidy?
5. Orthogenesis
6. Name any two endemic monotremes of Australia
7. What is meant by Molecular Clock
8. Human Pheromones

(1 x 8 = 8)

PART B

9. What is Hardy-Wienberg Equilibrium?
10. What is micro and macro evolution?
11. What is Germplasm Theory?
12. Write notes on different types of variation.
13. What is Sexual Selection Theory?
14. Differentiate between continental islands and oceanic islands with suitable examples
15. Comment Darwin's concept of struggle for existence
16. What is Geological time scale

(2 x 6 = 12)

PART C

17. Briefly explain the genetic basis of variations
18. Describe briefly the commonly used techniques of radiometric dating
19. What is speciation? Explain the different types of speciation
20. Comment on any four learning behavior
21. Briefly explain classical conditioning
22. Explain adaptive radiation with suitable example

(4 x 4 = 16)

PART D

23. Write an essay on Biochemical Origin of Life.
24. Describe in details any four Zoogeographical realms
25. Write in detail about Kinds and Means of Animal Distribution
26. Give an account on the theories on origin of life on earth and explain in detail Lamark's view of organic evolution and its critical analysis

(12 x 2 = 24)