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Name:

Reg.No:

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2022

(CBCSS - UG)

CC19U ZOL6 B13 - ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY

(Zoology - Core Course)

(2019 Admission - Regular)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Describe the faunal characteristics of Nearctic region.
2. Define tropotaxis.
3. Define observational conditioning.
4. Mention the importance of hypothalamus in thirst and feeding.
5. What is coacervation?
6. What are living fossils? Give examples.
7. What are homologous organs?
8. Define biogenetic law.
9. Mention any four points to criticise Darwinian theory of evolution.
10. Explain Neo-Lamarckism.
11. What is post zygotic RIM?
12. List the key features of Australopithecines.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Describe any six biogeographical zones of India.
14. Explain the mechanism of hibernation.

15. Discuss about significance of pheromones.
16. What is the theory of endosymbiosis?
17. Discuss the major features of geological time scale.
18. Differentiate Phyletic gradualism and Punctuated equilibrium.
19. What is speciation? What are different types of speciation?

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Describe the major barriers in animal distribution
21. What is genetic drift. Justify its importance in Hardy-Weinberg theory and neutral theory.

(1 × 10 = 10 Marks)
