

21U619

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Name:

Reg.No:

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U ZOL6 B13 - ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY

(Zoology - Core Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

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

1. Explain isolated distribution.
2. Define searching phase.
3. Mention the role of cerebral cortex in emotional behaviour.
4. Define hibernation.
5. What could be the possible sequence of evolution from anaerobic chemoheterotrophs to Aerobic heterotrophs?
6. What are 'living fossils'? Mention their evolutionary significance.
7. Define vestigial structures with examples.
8. Mention the genetic/molecular biology evidences of evolution.
9. What is genetic drift?
10. Describe punctuated equilibrium.
11. Define parapatric speciation.
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 geographical, climatic and faunal characteristics of Neotropical region.
14. Discuss about memory and learning.
15. Discuss about social organization in elephants.

16. What are the major postulates of Oparin-Haldane theory?
17. What are the major events occurred on earth during Palaeozoic era?
18. Explain Neo-Darwinism.
19. Explain isolation and isolating mechanisms.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Discuss in detail on biogeographical zones of India.
21. Explain the Lamarckian theory of evolution and its criticism. Describe neo Lamarckism.

(1 × 10 = 10 Marks)
