

**15U516**

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Name: .....

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, OCTOBER 2017**

(CUCBCSS-UG)

**CC15U ZO5 B07-ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY**

(Zoology - Core Course)

(2015-Admission Regular)

Time: Three Hours

Maximum: 80 Marks

I. Answer **all** questions. Each question carries 1 Mark.

1. Who proposed “Theory of punctuated equilibrium”?
2. What is pre-adaptation?
3. Define crepuscular animals with an example.
4. Which is the memory associated with consciousness?
5. What is an Oceanic island? Give an example.
6. What are living fossils? Give an example.
7. Define the theory of Panspermia.
8. What are homologous organs?
9. What are coacervates?
10. Name the golden age of reptiles.

**(10x1=10 Marks)**

II. Answer **any ten** questions. Each question carries 2 Marks.

11. Explain the significance of pheromones
12. Write short notes on Wallacea.
13. Explain the theory of island biogeography.
14. Give an account of diapause
15. Briefly explain the different types of innate behaviour
16. Describe Bipolar Distribution with an example.
17. Define bottle neck effect with example.
18. Discuss the main causes behind animal distribution?
19. Explain Neo-Lamarckism
20. Explain the Oparin – Haldane theory.
21. Briefly describe the Cambrian explosion.
22. Explain the germ plasm theory and its significance

**(10x2=20 Marks)**

**III.** Answer *any five* questions. Each question carries 6 Marks.

23. Briefly explain Pavlovian conditioning.
24. Describe the important barriers to animal distribution
25. Write short notes on Neotropical region and its faunal composition.
26. Explain the Hardy Weinberg principle and the factors affecting the equilibrium.
27. Discuss about allopatric and sympatric speciation?
28. Explain the main postulates of Lamarck's theory
29. Discuss the major features of geological time scale
30. Explain the important evidences for organic evolution

**(5x6=30 Marks)**

**IV.** Answer *any two* questions. Each question carries 10 Marks

31. Discuss the different types of learned behavior with suitable examples
32. Explain the characteristics and significance of the major biogeographical zones of India
33. Explain Darwinism with an example. Comment on the major criticisms against it.
34. Explain the different types of isolating mechanisms. Comment on its role in evolution

**(2x10=20 Marks)**

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