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Name.....

Reg. No.....

**SIXTH SEMESTER U.G. (CBCSS—UG) DEGREE EXAMINATION
MARCH 2024**

Zoology

ZOL 6B 13T—ETHOLOGY, EVOLUTION AND ZOO GEOGRAPHY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A

I. Short answer questions. Each question carries 2 marks :

- 1 Comment on the role of mammalian limbic system in behaviour.
- 2 What is Circadian Rhythm ?
- 3 What is Imprinting ? Give an example.
- 4 Write notes on trail pheromones.
- 5 Distinguish between continental islands and oceanic islands.
- 6 Write notes on Wallacea.
- 7 Explain the theory of punctuated equilibrium.
- 8 Write briefly on hybrid sterility.
- 9 Comment on the significance of Western Ghats in the biogeography of India.
- 10 How was Co-acervates formed on primordial earth ?
- 11 What is radiocarbon dating ?
- 12 What is co-evolution ?

(Ceiling 20 marks)

Section B

II. Paragraph questions. Each question carries 5 marks :

- 13 Explain conditioned reflex with suitable example.
- 14 Write an account on social life in termites.
- 15 Explain the different patterns of animal distribution citing examples.

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- 16 Describe the embryological and paleontological evidences of organic evolution.
- 17 Discuss the adaptive radiation in Darwin's finches.
- 18 Explain various pre-zygotic isolating mechanisms.
- 19 Explain the theory of Hardy-Weinberg equilibrium. Mention the factors of equilibrium.

Section C

III. Essay questions. Answer any *one* question :

- 20 Write an account on the contributions of Charles Darwin to the science of evolution. Also write a note on criticism against Darwinism.
- 21 What is speciation ? Explain the different types of speciation.