

C 40661

(Pages : 2)

Name.....

Reg. No.....

**SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2023**

(CBCSS—UG)

Zoology

ZOL 6B 13 T—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 What is circadian rhythm ?
- 2 Write notes on trial and error learning.
- 3 What is sign stimulus ?
- 4 What is oceanic island ? Give an example.
- 5 Name any *two* living fossils and state why they are referred so ?
- 6 What is Weber line ?
- 7 Distinguish between cline and cline and deme.
- 8 Write briefly on cladogenesis.
- 9 Mention the role of cerebral cortex in emotional behaviour.
- 10 What is hybrid inviability ?
- 11 What are vestigial organs ? Cite one example.
- 12 What is adaptive radiation ?

(Ceiling : 20 marks)

**Section B**

II. Paragraph Questions. Each question carries 5 marks :

- 13 Explain social life in elephants.
- 14 Discuss the faunal diversity and climatic features of Ethiopian Region.

**Turn over**

- 15 Explain hibernation and aestivation with examples.
- 16 Describe the physiological and biochemical evidences of organic evolution.
- 17 'Industrial Melanism is atypical case of natural selection'. Substantiate.
- 18 Demonstrate the experimental evidence for biochemical origin of life.
- 19 Explain the theory of genetic drift.

(Ceiling : 30)

### Section C

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

- 20 Write an essay on evolutionary trends in modern man.
- 21 Explain the different methods of natural speciation.

(1 × 10 = 10)