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(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, APRIL 2023**

(CBCSS)

Zoology

ZOL 2C 06—SYSTEMATICS AND EVOLUTION

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

I. Answer any *four* of the following. Short Answer Type Questions. Weightage 2 :

- 1 Define biological species concept.
- 2 Write the Nature of taxonomic characters.
- 3 Why ethics related to taxonomic publication ?
- 4 Define gene frequency.
- 5 Define evolutionary trends.
- 6 Differentiate Gradualism vs Punctuated equilibrium.
- 7 Define chloroplast genome.

(4 × 2 = 8 weightage)

II. Answer any *four* of the following. Short Essay Type Questions. Weightage 3 :

- 8 Write a detailed note on nominalistic and evolutionary species concepts.
- 9 What are the principles of nomenclature ?
- 10 Describe Molecular systematics.
- 11 Write the Impediments in taxonomic collection.
- 12 Explain the molecular clock and its uses.
- 13 Write a detailed note on macroevolution.
- 14 Explain the history of neutral theory.

(4 × 3 = 12 weightage)

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III. Answer any *two* of the following. Long Essay Type Questions. Weightage 5 :

- 15 Explain the Theories of classification.
- 16 State the Kinds of taxonomic characters.
- 17 Write a brief account of sexual selection.
- 18 Write a brief account of the evolution of language in primates.

(2 × 5 = 10 weightage)