

2403001302030001
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (SECOND SEMESTER) (NEP)
MDC-EVOLUTIONARY BIOLOGY - LEVEL 4

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination: **BACHELOR OF SCIENCE (SECOND SEMESTER) (NEP)**
- b. Name of the Subject: **MDC-EVOLUTIONARY BIOLOGY - LEVEL 4**
- c. Subject Code No: **2403001302030001**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Short Question/One word answer Any TEN:

10

- a) Who is considered as the father of "family trees"
- b) Define: Endogenetic
- c) Define: Lamarckism
- d) Who formulated theory of catastrophism?
- e) Define: Palaeobotany
- f) What are Fossils?
- g) Define: analogues organ
- h) Give examples of homologous organs
- i) Define: Connecting link
- j) Define: Natality rate
- k) Define: Population density
- l) What are the three main aspects of population ecology?

Q.2 Short note Any Two:

10

- a) Demerits of Darwinism
- b) The modern synthetic theory
- c) Discuss Neo-Lamarckism

Q.3 Short note **Any Two**: **10**

- a) Types of Fossils
- b) What do you understand by imperfection of geological records?
- c) Process of fossilisation.

Q.4 Short note **Any Two** of the following: **10**

- a) Vestigial organs and evidence of evolution.
- b) Evidence of evolution through comparative embryology
- c) Homologous organs and evolution

Q.5 Short note **Any Two** of the following: **10**

- a) Mortality in a population
- b) Describe different characteristics of population with suitable examples
- c) Vital index and survivorship curves
