



RAN-2403000502046002

B. Sc. Microbiology (Sem.-II) Examination October - 2025

BT-MDC: 201 Evolutionary Biology

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

B. Sc. Microbiology (Sem.-II)

Name of the Subject :

BT-MDC: 201 Evolutionary Biology

Subject Code No.: **2403000502046002**

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks.
(3) Draw neat and labelled diagrams wherever necessary.

Q.1. Define/One word answer Any TEN:

(10)

- Who is considered as the father of “family trees”
- Define: Endogenetic
- Define: Lamarkism
- Who formulated theory of catastrophism?
- Define: Palaeobotany
- What are Fossils?
- Define: analogous organ
- Give examples of homologous organs
- Define: Connecting link
- Define: Natalty rate
- Define: Population density
- What are the three main aspects of population ecology?

Q.2. Write Any Two:

(10)

- Describe the Demerits of Darwinism.
- How can you explain the modern synthetic Theory ?
- Discuss in detail Neo-Lamarckism.

Q.3. Write Any Two: (10)

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

Q.4. Write Any Two of the following: (10)

- (a) Explain Vestigial organs with evidence of evolution.
- (b) How can you justify Evidence of evolution through comparative embryology?
- (c) Mention the Homologous organs and evolution.

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

- (a) Describe the Mortality in a population.
 - (b) Differentiate the characteristics of population with suitable examples.
 - (c) Write the Vital index and survivorship curves.
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