



RAN - 2403000502046002

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**B.Sc. Microbiology (Sem - II) Examination April - 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**

- a) Who is considered as the father of "family trees"
- b) Define: Ectogenetic
- c) Enlist five basic processes of modern synthetic theory of evolution.
- d) Enlist the branches of Palaeontology.
- e) Define: Palaeozoology
- f) To estimate the time of solidification of rock which method is being used?
- g) Define: homologous organ
- h) Define: Species
- i) Give examples of vestigial organs in human.
- j) What are life tables?
- k) Define: Natality
- l) Define: community

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**[ 1 ]**

**[ P.T.O. ]**

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- Q.2 Write Any Two: 10**
- a) Discuss Neo-Lamarckism
  - b) Mention the Demerits of Darwinism
  - c) How can you explain The modern synthetic theory of Evolution?
- Q.3 Write Any Two: 10**
- a) What is Fossils? Mention the Nature of Fossils
  - b) How can you determine the age of fossils?
  - c) Describe the Nature of Fossils
- Q.4 Write Any Two of the following: 10**
- a) Describe Analogous organs as evidence of evolution
  - b) Justify Evidence of evolution through comparative physiology and biochemistry
  - c) How can you explain Vestigial organs with evolution?
- Q.5 Write Any Two of the following: 10**
- a) Mention the Population Dispersion
  - b) Determine the Regulation of population size
  - c) Describe the Age pyramids
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