

**RAN-2503001302046003**

**B.Sc. Biotechnology (Sem. II) Examination April - 2026**

**BT-MDC-202 Environmental Biology & Wild Life****Time: 2 Hours ]**

**[ Total Marks: 50**

### સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
Fill up strictly the above details on your answer book.
- (2) Figures to the right indicate full marks.
- (3) Draw neat and labelled diagrams wherever necessary.

Seat No.:

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Student's Signature

**Q. 1      Short Question/One-Word Answer (Any 10 out of 12)**

(10)

- Define Hemicology.
- What is niche?
- Who is the father of Indian ecology?
- Define renewable resources.
- What is shifting cultivation?
- List down any 2 reasons for the depletion of wildlife.
- Define flora and fauna.
- Why do we need to conserve wildlife?
- List down new sources of food.
- What is biogas technology?
- What equipment is used in solar energy?
- What is the biggest challenge to wind energy?

**Q. 2**      **Short Note/Brief Answer (Any 2 out of 3)**

(10)

- Define and differentiate the following terms: population, ecological succession, monoclinal community and ecotype.
- Classify and explain the subdivisions of ecology.
- Describe the structural and functional concepts of ecology.

**Q. 3**      **Short Note/Brief Answer (Any 2 out of 3)**

(10)

- Compare and contrast non-renewable resources, discussing their advantages and disadvantages.
- Examine the role of agriculture and aquaculture in sustainability.
- Analyze why energy conservation is essential.

**Q. 4            Short Note/Brief Answer (Any 2 out of 3)                                                 (10)**

- Illustrate the concept and significance of solar energy.
- Demonstrate the methods of waste conservation and their environmental benefits.
- Explain the process and importance of producing liquid fuels from waste.

**Q. 5**      **Short Note/Brief Answer (Any 2 out of 3)**      **(10)**

- Assess the wildlife diversity of India.
- Critically evaluate the different modes of wildlife conservation.
- Propose strategies for conserving endangered flora and fauna species.

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