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**RAN-2503001302046003**

**B.Sc. Biotechnology (NCF - NEP) (Sem - II)**

**Examination April - 2025**

**BT - MDC - 202 : Environmental Biology and Wildlife**

**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. Biotechnology (NCF - NEP) (Sem - II)**

Name of the Subject :

**BT - MDC - 202 : Environmental Biology and Wildlife**

Subject Code No.: **2503001302046003**

Seat No.:

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Student's Signature

**Q.1. One -Word Answer (Any 10)**

**10**

- Define Hexicology.
- What is niche?
- Who is the father of Indian ecology?
- Define renewable resources.
- What is shifting cultivation?
- 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?
- List down any 2 reasons for the depletion of wildlife.
- Define flora and fauna.
- Why do we need to conserve wildlife?

- Q.2. Write Short Notes (Any 2) 10**
- a) Classify and explain the subdivisions of ecology.
  - b) Describe the structural and functional concepts of ecology.
  - c) Define and differentiate the following terms: population, ecological succession, monoclimal community and ecotype.
- Q.3. Write Short Notes (Any 2) 10**
- a) Why energy conservation is essential? Analyze it.
  - b) Compare and contrast non-renewable resources, discussing their advantages and disadvantages.
  - c) Examine the role of agriculture and aquaculture in sustainability.
- Q.4. Answer Briefly (Any 2) 10**
- a) Illustrate the concept and significance of solar energy.
  - b) Explain the process and importance of producing liquid fuels from waste.
  - c) Demonstrate the methods of waste conservation and their environmental benefits.
- Q.5. Write Short Notes (Any 2) 10**
- a) Assess the wildlife diversity of India.
  - b) Propose strategies for conserving endangered flora and fauna species.
  - c) Critically evaluate the different modes of wildlife conservation.
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