

RAN-2303080503040003
M. Sc. Zoology (Sem. - III) Examination October - 2025
EG: Zoo - 3004 : Animal Ecology and Environmental Biology
Time: 3 Hours]
[Total Marks: 70
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) All the questions are compulsory.
- (3) Digits to the right side indicates full marks of the question.
- (4) Draw neat and labelled diagrams if necessary.

Seat No.:

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Student's Signature

Q. 1. Answer any Two of the following: (18)

- A. Write detail notes on: How is energy flow in ecosystem?
- B. Explain: What is the structure and growth curve of a population in ecology
- C. Describe: Basic elements of ecosystem.

Q. 2. Answer any Two of the following: (18)

- A. Write detail notes on: The principle, structure, and functioning of wind energy.
- B. Explain: How does bioremediation utilize microorganisms to break down or neutralize xenobiotic compounds?
- C. Describe: Explain the role of solar energy as sources of conventional energy.

Q. 3. Answer any Two of the following: (18)

- A. Write detail notes on: What are natural hazards such as cyclones?
- B. Explain: What are forest fires and what role do they play in the ecosystem?
- C. Describe: What are the different types of soil erosion and how it can be prevented or controlled?

Q. 4. Answer any Two of the following: (16)

- A. Write detail notes on: What are the challenges in communication and management of health risks during a crisis?
- B. Explain: What is industrialization and the main factors in different countries?
- C. Describe: The different types of occupational hazards and provide appropriate examples for each type.