

Roll No. ....

Total Pages : 03

**051201**

**May 2024**

**B.Tech. (ME (Hindi Medium) (ME/RAI)**

**(Second Semester)**

**Environment and Ecology (MCEVS-01)**

*Time : 3 Hours]*

*[Maximum Marks : 75*

**Note :** It is compulsory to answer all the questions (1.5 marks each) of Part A in short. Answer any *four* questions from Part B in detail. Different sub-parts of a question are to be attempted adjacent to each other.

**Part A**

1. (a) What is the importance of environmental education ? **1.5**
- (b) Discuss the components of the atmosphere. **1.5**
- (c) Write about neutralism. **1.5**
- (d) What are the objectives of human rights education ? **1.5**
- (e) Why pyramid of energy is always upright ? **1.5**
- (f) Write the names of three major biomes. **1.5**

- (g) What are estuaries ? Discuss its importance. **1.5**
- (h) Why do we need to create public awareness of natural resources ? **1.5**
- (i) Write about environmental movements started by Bishnoi of Rajasthan. **1.5**
- (j) What is the difference between ecological niche and habitat ? **1.5**

### Part B

2. (a) What is the role of humans and NGOs in environment conservation ? Write about steps taken for environmental conservation. **10**
- (b) Why we need to create environmental awareness among the People and students ? **5**
3. (a) Explain the difference between a food chain and a food web with an example. **5**
- (b) What is a population explosion ? What is the role of family welfare programs in controlling the population ? **10**
4. Write short notes on the following : **5×3=15**
- (i) Human rights and education
- (ii) Invasive Species
- (iii) Predation and parasitism.

5. (a) What is ecological succession ? Discuss in detail the process of ecological succession. **10**
- (b) What is the pyramid of biomass ? explain in detail with examples. **5**
6. (a) Write a short note on energy flow models including the single channel model and Y-shape model. **10**
- (b) Explain in detail about the abiotic structure of the ecosystem. **5**
7. (a) What is the role and function of the pond ecosystem ? **5**
- (b) What are the major biomes and their types ? Discuss the structure and function of the forest ecosystem. **10**