

Roll No. ....

Total Pages : 3

MDQ/M-20

10613

## BASIC CONCEPTS OF ECOLOGY

Paper-I

Time Allowed : 3 Hours]

[Maximum Marks : 80

Note : Attempt five questions in all, selecting at least one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

### Compulsory Question

1. Write short notes on the following :

- (a) Autoecology and synecology.
- (b) Concept of climax.
- (c) Reservoir and exchangeable pool.

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(d) Ecological Niche.

4×4=16

### UNIT-I

2. Describe the different biotic and abiotic factors affecting the environment. 16
3. Define the term Ecology. Also explain the scope and significance of ecology. 16

### UNIT-II

4. Explain the concept of ecosystem along with its components, properties and functions. 16
5. Write a note on the laws of limiting factors. 16

### UNIT-III

6. Describe the energy flow in an ecosystem in detail. 16

7. Write notes on the following :

(a) Concept of productivity. 8

(b) Effects of pollution on biogeochemical cycles. 8

#### UNIT-IV

8. What are biomes? Describe the major terrestrial biomes of the world. 16

9. Define succession and explain the different types of succession with the help of suitable examples. 16