

No. of Printed Pages : 4

MEV-011

**M. SC. (ENVIRONMENTAL
SCIENCE) (MSCENV)**

Term-End Examination

June, 2025

**MEV-011 : FUNDAMENTALS OF
ENVIRONMENTAL SCIENCE
AND ECOLOGY**

Time : 3 Hours

Maximum Marks : 100

Note : Answer any *ten* questions. All questions
carry equal marks.

1. Define the term 'environment'. Describe the structure and components of environment.

2+8=10

A-135/MEV-011

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2. Give a detailed account of impact of human activities on environment. 10
3. Write short notes on any *two* of the following : 5+5=10
 - (i) Degradation of natural resources
 - (ii) Water scarcity
 - (iii) Ozone depletion
4. What is sustainable development ? Describe sustainable development goals. 5+5=10
5. Discuss various environmental factors or ecological factors which affect the life of an organism. 10
6. What are the salient features of a community ? Explain species interaction and competition in a community. 5+5=10
7. Explain different kinds of successions. Describe general process of succession. 5+5=10
8. Write a note on productivity and material cycling of an ecosystem. 5+5=10

9. Describe the energy flow in an ecosystem with the help of the following : $5+5=10$

(i) Single channel energy model

(ii) Y-shaped model

10. What is restoration ecology ? Explain various approaches to restoration ecology.

$3+7=10$

11. Describe constituents of total economic value of the environment. Differentiate between revealed preference and stated preference techniques to environmental valuation. $5+5=10$

12. Write notes on the following : $5 \times 2 = 10$

(i) Environmental policy

(ii) Environmental auditing

13. Discuss any *five* green technologies to curb environmental pollution. 10

14. Describe the following with the help of suitable diagrams : 5+5=10

(i) Carbon cycle

(ii) Nitrogen cycle

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