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MEVE-14

M. SC. (ENVIRONMENTAL SCIENCE)

(MSCENV)

Term-End Examination

December, 2025

MEVE-14 : BIODIVERSITY CONSERVATION

AND MANAGEMENT

Time : 3 Hours

Maximum Marks : 100

Note : (i) Answer any **ten** questions.

(ii) All questions carry equal marks.

1. What is 'sustainable harvesting' of forest resources ? Explain the benefits of sustainable harvesting of forest resources.

2+8

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2. Explain the principles of ecosystem approach towards biodiversity management.

10

3. (a) Explain the salient features of plant varieties that exist in India. Substantiate your answer by drawing examples.

5

- (b) Write a short note on the Plant Varieties and Farmer's Rights Act, 2001.

5

4. What is *ex-situ* conservation ? Explain the different methods of *ex-situ* conservation.

2+8

5. Write short notes on the following : 5+5

(a) Bishnoi Movement

(b) Chipko Movement

6. What are sustainable cities ? Explain the characteristics of sustainable cities.

2+8

7. Write short notes on the following : 5+5

(a) CITES

(b) UNFCCC

8. Explain the intrinsic and utilitarian values of biodiversity. 10

9. Write short notes on the following : 5+5=10

(a) Boreal forests

(b) Coastal ecosystem

10. What is habitat destruction ? Explain the causes and consequences of habitat destruction. 2+8

11. Explain the role of biodiversity in climate change mitigation and adaptation. 10

12. What is bioprospecting ? Explain the process of bioprospecting. Discuss the strengths and weaknesses of bioprospecting. 2+4+4

13. What are biodiversity hotspots ? Explain the characteristic features of biodiversity hotspots in India. 2+8
14. What is ecosystem management ? Explain the components and characteristics of ecosystem management plan. 2+8

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