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MEV-011

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

Term-End Examination

December, 2024

**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 environment. Explain the structure and importance of environment. 2+8=10
2. Describe the human driven environmental changes and their impacts on ecosystem functioning and public health. 10
3. What are global environmental issues ? Discuss any *four* issues and their control measures.

2+8=10

4. What is environmental sustainability ? Discuss its targets and indicators. 2+8=10
5. Discuss various levels of organization in ecology. Describe intraspecific and interspecific relationship occurring among organisms. 5+5=10
6. Define population and discuss the concepts of density, natality, mortality and population distribution. 2+8=10
7. What is a community ? Describe community organization. 2+8=10
8. What is climax community ? Describe stages of succession in lithosphere with illustrations. 2+8=10
9. Describe major biomes of the world. 10
10. What is ecosystem ? Describe the structure and functions of an ecosystem. 2+8=10
11. Define biogeochemical cycles. Explain biogeochemical cycles of carbon and nitrogen. 2+8=10

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12. Explain the history of human relationship with nature reflecting upon population pressures, resource consumption and sustainability. 10
13. Discuss need for ecosystem restoration. Explain various approaches for ecosystem restoration.
2+8=10
14. Give definitions and significance of environmental education and education for sustainable development. 10
15. Describe any *five* environmental friendly solutions for solving environmental crisis.
5×2=10

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