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MEV-011

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

Term-End Examination

June, 2024

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

Time : 3 Hours

Maximum Marks : 100

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

1. What is Environmental Science ? Describe the structure and components of environment.

2+8=10

2. Describe any *five* major environmental issues our world is facing and how they are affecting our environment.

2×5=10

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3. What is sustainable development ? Discuss the role of sustainable developmental goals in the context of environmental issues. $2+8=10$
4. Explain the scope of ecology. List down the environmental factors that affect the living organisms. $2+8=10$
5. What are the salient features of a community ? Discuss the community organization in an ecosystem. $2+8=10$
6. Differentiate between primary succession and secondary succession. Explain the stages of plant succession in hydrosere with illustrations. $2+8=10$
7. Explain ecosystem and its types. Discuss ecological pyramids of an ecosystem. $2+8=10$
8. Explain *one* gaseous cycle and *one* sedimentary cycle with a suitable diagram. $5+5=10$

9. Describe the trends in population growth and its implications on resource consumption and sustainability. $5+5=10$
10. What is restoration ecology ? Describe various approaches of habitat restoration. $2+8=10$
11. Discuss any *five* major National or International conventions related to environment. $5 \times 2 = 10$
12. What is Environmental Education (EE) and Education for Sustainable Development (ESD) ? Explain its role and significance to human society. $2+8=10$
13. What is total economic value of the environment ? Discuss the scope of environmental economics. $5+5=10$

14. Describe Environmental Management System and Environmental Auditing. $5+5=10$
15. What is Environmental Sustainability Index (ESI) and Environmental Performance Index (EPI) ? Give any *four* green technologies for solving environmental crisis. $2+8=10$