

**MASTER OF ARTS IN
SUSTAINABILITY SCIENCE (MASS)**

Term-End Examination

December, 2024

MSD-022 : AQUATIC ECOSYSTEM

Time : 3 Hours

Maximum Marks : 100

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

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1. Explain the biotic structure in the lake ecosystem. 10
 2. What is marine ecosystem ? Explain the characteristic features of marine ecosystem. 10
 3. Write short notes on the following : 5+5=10
 - (a) Estuarine region
 - (b) Ecosystem services
 4. Write short notes on the following : 5+5=10
 - (a) Climate change and coastal resilience
 - (b) Global environment facility

5. Write short notes on the following : 5+5=10
- (a) UN Convention on the Law of the Sea
 - (b) SDG-14 (Life Below Water)
6. Write short notes on the following : 5+5=10
- (a) Pelagic and Benthic Zone
 - (b) Ecosystem integrity
7. Explain the drivers of degradation in wetland ecosystem. 10
8. Write short notes on the following : 5+5=10
- (a) Livelihood Security
 - (b) Sustainable Fisheries
9. Discuss the efforts taken by the Government of India for conserving aquatic ecosystem. 10
10. Explain the salient features of Convention on International Trade in Endangered Species of Wild Fauna and Flora. 10
11. What is climate-smart agriculture ? Explain the salient features of climate-smart agriculture. 10
12. Write short notes on the following : 5+5=10
- (a) SDG-13 (Climate Action)
 - (b) Economic value of rivers

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