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MSD-022

**MASTER OF ARTS
(SUSTAINABILITY SCIENCE) (MASS)
Term-End Examination
December, 2023**

MSD-022 : AQUATIC ECOSYSTEM

Time : 3 Hours

Maximum Marks : 100

Note : (i) Attempt any **ten** of the following questions.

(ii) All questions carry equal marks.

1. What is an aquatic ecosystem ? Classify the aquatic ecosystem based on their habitat zone. Explain the factors affecting aquatic habitat productivity. 10
2. Explain the lake ecosystem based on the nutrient richness of lakes. 10
3. Write short notes on the following : 5+5=10
 - (a) Ocean biota
 - (b) Types of drainage system

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4. What are ecosystem services ? Explain the market-based and non-market based valuation methods. 10
5. Explain the salient features of integrated coastal zone management. 10
6. Explain the approaches and techniques adopted in the restoration of marine ecosystem. 10
7. What are wetlands ? Explain the characteristic features of wetlands. Explain the different types of wetlands. 10
8. Write short notes on the following : 5+5=10
 - (a) Ecosystem integrity
 - (b) Farming in wetland ecosystem
9. Explain the role of aquatic ecosystem towards achieving sustainable development goals. 10
10. What is climate-smart agriculture ? Explain the characteristic features of climate-smart agriculture. 10
11. Explain the natural and anthropogenic influences on aquatic ecosystems. 10
12. Explain the salient features of Convention on Biological Diversity. 10