No. of Printed Pages: 3

## MASTER OF ARTS IN SUSTAINABILITY SCIENCE (MASS)

## Term-End Examination June, 2025

**MSD-022: AQUATIC ECOSYSTEM** 

Time: 3 Hours Maximum Marks: 100

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

- 1. Define aquatic ecosystem. Explain the significant features of lake ecosystem. 2+8
- 2. Write short notes on the following: 5+5
  - (a) Pelagic and Benthic Zone
  - (b) Ocean biota

3.	Write short notes on the following: 5	+5
	(a) Climate change and coastal resilience	
	(b) Ecosystem services	
4.	What is a marine ecosystem ? Explain t	he
	processes occurring in marine ecosystem.	
	2	:+8
5.	What are wetlands? Explain the importan	ıce
	and threats to wetlands.	+8
6.	Explain the socio-economic and ecologi	cal
	values of river ecosystem.	10
7.	Explain the role of aquatic ecosyste	em
	towards achieving SDGs.	10
8.	What is climate-smart agriculture? Expla	ain
	the characteristics and advantages	of
	climate-smart agriculture.	10
9.	Explain the salient features of Conventi	ion
	on Biological Diversity.	10
10.	Write short notes on the following: 5	+5
	(a) SDG-14: life below water	
	(b) Global Environment facility	

11. W	rite short notes on the following:	5+5
(a`	) River rejuvenation	

- (b) Blue economy
- 12. Explain the characteristic features of sustainable industrial production system. 10
- 13. Explain the anthropogenic influence on aquatic ecosystem.10
- 14. Write short notes on the following: 5+5
  - (a) Ecosystem integrity
  - (b) Livelihood security

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