Reg. No ..... Name **25P149**

M.Sc. DEGREE END SEMESTER EXAMINATION - NOVEMBER 2025

SEMESTER 1 : AQUACULTURE AND FISH PROCESSING

COURSE : **24P1AQCT04 : AQUACULTURE ENGINEERING**

(For Regular - 2025 Admission and Improvement/Supplementary 2024 Admission)

Time : Three Hours Max. Weights: 30

PART A

Answer any 8 questions **Weight: 1**

1.	Raft vs rack culture.	(U, CO 1)
2.	What are the soil sampling methods?	(U, CO 3)
3.	What is sedimentation?	(U, CO 3)
4.	What are blowers?	(U, CO 8)
5.	What are Barrage ponds?	(U, CO 2)
6.	Give examples for mechanized fish harvesters.	(U, CO 7)
7.	What is the purpose of aerator?	(U, CO 4)
8.	List out the disinfectant agents used in aquaculture.	(U, CO 4)
9.	What is topography?	(U, CO 1)
10.	What are the methods of leveling?	(U, CO 1, CO 3)

(1 x 8 = 8)

PART B

Answer any 6 questions **Weights: 2**

11.	Give an account on hatchery facilities.	(U, CO 8)
12.	What is recirculatory system?	(U, CO 1)
13.	Write short notes on ammonia removal.	(U, CO 8)
14.	What are the major characteristics of soil?	(U, CO 3)
15.	Make an approximate allocation of area for different types of ponds in a fish farm.	(U, CO 1, CO 2)
16.	What are the factors affecting water run off?	(U, CO 1)
17.	What are the merit and demerits of cage culture?	(U, CO 1)
18.	Differentiate monks and spillways.	( )

(2 x 6 = 12)

PART C

Answer any 2 questions **Weights: 5**

19.	Write an essay on different types of equipments and their maintenance used in aquaculture farm.	(U, CO 4)
20.	Selection of Site for Coastal Aquaculture or Brackish Water Farm.	(U, CO 1)
21.	Describe the design and construction of different types of ponds in aquaculture.	(U, CO 2)
22.	Write an essay on classification of soils and their relative advantage in an aquaculture farm.	(U, CO 3)

(5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Describe the criteria for selection of site for freshwater, brackish water and mariculture systems.	U	1, 9, 10, 12, 15, 16, 17, 19	16
CO 2	Understand the engineering principles which is helpful in design and construction of aqua farms	U	5, 15, 20	8
CO 3	Evaluate the basic features of soil by sampling method for classification ,distribution and strength	U	2, 3, 10, 14, 21	10
CO 4	Understanding the working of different aquaculture equipment including hand tools	U	7, 8, 18	7
CO 7	Understanding the management pond and hatcheries	U	6	1
CO 8	Understand the application of feeding systems in aquaculture	U	4, 11, 13	5

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;