Reg. No .... Name **24P1009**

M.Sc. DEGREE END SEMESTER EXAMINATION - NOVEMBER 2024
SEMESTER 1 : AQUACULTURE AND FISH PROCESSING
COURSE : **24P1AQCT01 : TAXONOMY AND BIOLOGY OF COMMERCIAL AND CULTIVABLE FINFISH AND SHELLFISHES**

(For Regular 2024 Admission and Improvement/Supplementary 2023/2022/2021 Admissions)

Duration : Three Hours   Max. Weights: 30

PART A
Answer any 8 questions   Weight: 1

1.	What is meant by lacunar type of circulation?	(R)
2.	Distinguish between Clupeidae and Engraulidae.	(An)
3.	Name the ganglionic masses found in the optic peduncle of crustacean eyes.	(R)
4.	Define wedge bank.	(An)
5.	Outline on the air bladder of finfish.	(U)
6.	What is the functional importance of neuormast organ?	(R)
7.	Sketch and label a placoid scale.	(A)
8.	Define Adenohypophysis.	(R)
9.	List the scientific names of four commercially important bivalves.	(R)
10.	Write the scientific name of state fish of Kerala. Classify it.	(R)

(1 x 8 = 8)

PART B
Answer any 6 questions   Weights: 2

11.	Assess on the family Scomberomoridae.	(E)
12.	Design branchial formulas for freshwater prawn and shrimp.	(Cr)
13.	Discuss the external morphology of a crab with emphasis on sexual dimorphism.	(E)
14.	Define the different theories of formation of mud banks.	(U)
15.	Interpret on the important characters of the family under which seer fishes are included.	(E)
16.	Distinguish between" X " and "Y" organs in shrimp.	(An)
17.	Explain the nervous system of prawn with a suitable diagram.	(A)
18.	Compare relative and absolute fecundity? What is the application of fecundity study?	(E)

(2 x 6 = 12)

PART C
Answer any 2 questions   Weights: 5

19.	Classify the order Siluriformes into families. Describe the family characters citing examples.	(U)
20.	Elaborate on endocrine system of shrimp.	(Cr)
21.	Discuss about the process of digestion and digestive glands in prawns.	(E)
22.	Discuss on the systematics of commercially important molluscs of India.	(Cr)

(5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.

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