Reg. No

23P2024

M. Sc. DEGREE END SEMESTER EXAMINATION : MARCH 2023 SEMESTER 2 : AQUACULTURE AND FISH PROCESSING

COURSE : 21P2AQCT06: BIOCHEMISTRY AND NUTRITION OF FIN FISH AND SHELL FISH

(For Regular - 2022 Admission and Supplementary - 2021 Admission)

Duration : Three Hours

Max. Weights: 30

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	PART A Answer any 8 questions	Weight: 1
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1.	What is meant by Osazone reaction?	(A, CO 1)
2.	What is Carboxymethyl cellulose? Explain.	(A, CO 5)
3.	What are Glycolipids?	(R, CO 1, CO
	What is alloctoric inhibition?	3)
4. -	What is allosteric inhibition?	(U, CO 1)
5.	Explain Semi-conservative method of DNA replication.	(A, CO 1)
6.	What is Sekoke disease?	(R, CO 8)
7.	Explain scoliosis in fishes.	(A <i>,</i> CO 8)
8.	Differentiate Moina and Daphnia.	(An, CO 2, CO 8)
9.	What is mash?	(A, CO 6)
10.	What is PER ?	(U, CO 6) (1 x 8 = 8)
	PART B	<pre></pre>
	Answer any 6 questions	Weights: 2
11.	Explain the reaction of monosaccharides with acid and alkali.	(A, CO 1)
12.	Describe Phosopholipids and its functions .	(U, CO 1, CO
		3)
13.	Briefly explain sereine and glycine metabolism in fishes.	(An, CO 1, CO 5)
14.	Give an account on the metabolism of phenylalanine in fish nutrition?	(An, CO 1, CO 5)
15.	Explain the mechanism of enzyme action.	(A, CO 1)
16.	Explain different factors influencing nutritive requirements of fishes.	(An, CO 3, CO
		4)
17.	Whcih are the factors affecting the quality of feed during storage?	(A, CO 6, CO 7)
18.	Explain non demand feeders .	(R, CO 7) (2 x 6 = 12)
	PART C	
	Answer any 2 questions	Weights: 5
19.	Describe the sources , significance and negative aspects of lipids in finfish nutrition.	(E, CO 2, CO 8)
20.	Give an account of different feed additives used in aquaculture.	(An, CO 5)
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21.	Give an account of conventional and non conventional source of feed ingredients.	(A, CO 4, CO 8)
22.	Describe feed dispensing methods and feeding protocols in a semi- intensive shrimp farm	(A, CO 7) (5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

СО	Course Outcome Description	CL	Questions	Total Wt.
CO 1	CO 1 Understand the basic principles of biochemistry as applied to aquaculture organisms in relation with environmental factors	U	1, 3, 4, 5, 11, 12, 13, 14, 15	14
CO 2	Understand the application of different additives in aquaculture feeds	U	8, 19	6
CO 3	Describe the nutritional bioenergetics in fin fish and shell fish	U	3, 12, 16	5
CO 4	Understand the classification of feed stuff and anti- nutritional factors present in its	U	16, 21	7
CO 5	Evaluation of quality of feed ingredients and finished feed	Е	2, 13, 14, 20	10
CO 6	Analyse the feed formulation strategies and methods	An	9, 10, 17	4
CO 7	Understand the management of feeding in aquaculture arms and hatcheries	U	17, 18, 22	9
CO 8	Understand the nutritional requirements of finfishes and shell fishes under culture condition	U	6, 7, 8, 19, 21	13

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