

Reg. No .....

Name .....

22P329

**MSc DEGREE END SEMESTER EXAMINATION - OCTOBER 2022**

**SEMESTER 3 : AQUACULTURE AND FISH PROCESSING**

**COURSE : 21P3AQCT09 ; CULTURE OF FINFISHES, MOLLUSCUS AND SEA CUCUMBERS**

*(For Regular - 2021 Admission)*

Duration : Three Hours

Max. Weights: 30

**PART A**

**Answer any 8 questions**

**Weight: 1**

1. What is circle nets? (R)
2. What is shell bead nucleus? (R)
3. What are hatching Hapas? (R, CO 1, CO 4)
4. What is cylindro-conical tank? (R, CO 1, CO 4, CO 7)
5. What is isognomon? (R)
6. What is white amur? (R)
7. Name two species of sea cucumber used in Beche-de-mer production in India. (R)
8. List out the grow out systems for sea cucumbers. (R)
9. How probiotics act ? (U, CO 1, CO 7)
10. What is pituitary gland? (R, CO 1, CO 4)  
**(1 x 8 = 8)**

**PART B**

**Answer any 6 questions**

**Weights: 2**

11. Analyse fin fish culture in the world. (An, CO 1, CO 7)
12. Explain polyculture method with example. (U, CO 1, CO 7)
13. Evaluate the types of parasites which affects the production of gametes in oyster. (E)
14. Outline the growth of abalone. (U)
15. Categorise grow out systems in sea cucumber. (An)
16. Catogerise the common diseases encountered in mussel farming and its control. (An)
17. Categorise different aquaponic systems. (E, CO 1, CO 7)
18. How can we control aquatic insects in a pond system? (U, CO 1, CO 7)  
**(2 x 6 = 12)**

**PART C**

**Answer any 2 questions**

**Weights: 5**

19. Discuss the larval stages in Pearl oysters. (E)
20. Discuss about the various farming techniques for sea cucumbers. (E)

21. Discuss about the use and effects of organic fertilization in culture ponds. (Cr, CO 1, CO 2, CO 3, CO 4)
22. Discuss about the problems encountered in an extensive culture system. (E, CO 1, CO 3, CO 4, CO 7)  
**(5 x 2 = 10)**

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Understand the commercial practices on culture of fin fishes and mollusc	U	3, 4, 9, 10, 11, 12, 17, 18, 21, 22	22
CO 2	Analyze the food and feeding of fin fishes ,mollusc and sea cucumbers	An	21	5
CO 3	Understanding the characteristics and criteria for selection of species for mariculture	An	21, 22	10
CO 4	Understanding the seed collection and transportation techniques	U	3, 4, 10, 21, 22	13
CO 7	Describing different types of grow out culture systems	U	4, 9, 11, 12, 17, 18, 22	15

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