

M. Sc. DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023**SEMESTER 1 : AQUACULTURE AND FISH PROCESSING****COURSE : 21P1AQCT01 : TAXONOMY AND BIOLOGY OF COMMERCIAL AND CULTIVABLE FIN FISH AND SHELL FISHES***(For Regular - 2023 Admission and Improvement/Supplementary -2022/2021 Admissions)*

Duration : Three Hours

Max. Weights: 30

PART A**Answer any 8 questions****Weight: 1**

1. Describe the structure and function of claspers. (U)
 2. Define urophysis (R)
 3. Define Parr. (U)
 4. Distinguish the different types of caudal fins in fishes. (An)
 5. What are the difference between first and second pleopdos of a male penaeid prawn (R)
 6. Distinguish between spermatogenesis and oogenesis (An)
 7. Give the scientific names of any four commercially important lobsters in India. (R)
 8. Define Gonadosomatic index (R)
 9. Assess on the structure of the shell of a gastropod mollusc. (E)
 10. Define Ecdysis. (R)
- (1 x 8 = 8)**

PART B**Answer any 6 questions****Weights: 2**

11. Define the different theories of formation of mud banks (U)
 12. Discuss about breeding migration in prawns. (E)
 13. Analyse modification of scales. (An)
 14. Recall the main characters of the phylum Mollusca (R)
 15. Discuss the morphology of a typical lobster with a suitable diagram. (E)
 16. Discuss about the distribution of neurosecretory cells in nervous system of shrimp. (E)
 17. Summarize on accessory respiratory organs of fin fishes. (U)
 18. Briefly discuss about coramandal coast (E)
- (2 x 6 = 12)**

PART C**Answer any 2 questions****Weights: 5**

19. Impact of climate change on commercial fishery resource in India? (Cr)
 20. Write ten distinguishing characters of Chondrichthys. How do you distinguish between sharks and rays? (An)
 21. Discuss about larval forms of commercially important crustaceans. (E)
 22. Write the distinguishing characters of Osteichthys. How do you distinguish between Chondrichthys and Osteichthys? (Cr)
- (5 x 2 = 10)**

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
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Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;