

Reg. No .....

Name .....

17P109

**MSc DEGREE END SEMESTER EXAMINATION- NOVEMBER 2017**

**SEMESTER 1 : AQUACULTURE AND FISH PROCESSING**

**COURSE : 16P1AQCT01 ; TAXONOMY AND BIOLOGY OF COMMERCIAL AND CULTIVABLE  
FIN FISH AND SHELL FISHES**

*(Common for Regular - 2017 / Supplementary - 2016 Admissions)*

Time : Three Hours

Max. Marks: 75

**Section A**

**Describe any 8 of the following (2 marks each)**

1. Distinguishing characters of Gastropods.
2. Define ovulation
3. Explain the sexual dimorphism of a crab.
4. Distinguish between elasmobranch and teleost gills.
5. Distinguish between median fins and paired fins.
6. Distinguish between Clupeidae and Engraulidae
7. Describe Emergency food.
8. List out the functions of hepatopancreas in shrimp
9. List out the larval stages of shrimp
10. What is ostia
11. What is Index of preponderance.
12. Specify the location of Wadge bank in South India and give two examples for its fishery resources

**(2 x 8 = 16)**

**Section B**

**Write short notes on any 7 (5 marks each)**

13. Commercially important lobsters of India
14. What are the main characters of the phylum Mollusca
15. Write down important characters of the family Clupeidae
16. Distinguish between Malacopterygians and Acanthopterygians
17. What are the important characters of the family under which seer fishes are included
18. Distinguish between nanoplankton, microplankton and macroplankton
19. Describe Digestive system in Crustacea
20. Structure and function of hepatopancreas of a prawn
21. Function of blood pigments of crustaceans
22. Write a short notes on X and Y organs in shrimps

**(5 x 7 = 35)**

**Section C**

**Write an essay on any 2 (12 marks each)**

23. Classify the order Siluriformes into families. Describe the family characters citing examples.
24. Write an essay on different layers of shrimp exoskeleton and stages of molting
25. Describe the structure and function of pituitary gland in fishes.
26. Write an essay on climate in relation to fisheries in Indian coast

**(12 x 2 = 24)**