Reg. No ..... Name **18P109**

M.Sc DEGREE END SEMESTER EXAMINATION - NOVEMBER 2018

SEMESTER 1 : AQUACULTURE AND FISH PROCESSING

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

(For Regular - 2018 Admission & Supplementary - 2016 / 2017 Admissions)

Time : Three Hours Max. Marks: 75

Section A
Answer any 8 (2 marks each)

1. Write the differences between first and second pleopdos of a male penaeid prawn.
2. Describe the structure of the shell of a gastropod mollusc.
3. Different body shapes in fishes.
4. What is meant by holotype and paratype series in taxonomy?
5. Distinguish between Clupeidae and Engraulidae.
6. What is meant by Dichotomous Key in taxonomy?
7. Define apolysis.
8. Differentiate podobranch, arthrobranch and dendrobranch.
9. What is Index of preponderance?
10. Describe the blood pigments of fishes.
11. Distinguish between Isometric and Allometric growth.
12. Specify the location of Wadge bank in South India and give two examples for its fishery resources.

(2 x 8 = 16)

Section B
Answer any 7 (5 marks each)

13. Distinguish between Malacopterygians and Acanthopterygians.
14. Explain about modification of scales.
15. Write down important characters of the family Cichlidae.
16. Explain about Family Exocoetidae and Anabantidae.
17. What are the important characters of the family under which seer fishes are included?
18. Describe the different types of feeding habits in fishes.
19. What is meant by size at first maturity? Give an account of various maturity stages of fishes.
20. Accessory respiratory organs found in catfishes.
21. Methods employed for gut content analysis.
22. Respiration in prawns.

(5 x 7 = 35)

Section C

Answer any 2 (12 marks each)

23. Write an essay on the systematics of commercially available Lobsters in India.
24. Different methods employed in the age and growth studies of fresh water and marine fin fish.
25. Write an essay on different layers of shrimp exoskeleton and stages of molting.
26. Write an essay on the relationship between water currents and fishery in Indian coast.

(12 x 2 = 24)