

Reg. No .....

Name .....

**M. Sc DEGREE END SEMESTER EXAMINATION - MARCH 2020**  
**SEMESTER 2 : AQUACULTURE AND FISH PROCESSING**  
**COURSE : 16P2AQCT06 : BIOCHEMISTRY AND NUTRITION OF FIN FISH & SHELL FISH**  
*(For Regular - 2019 Admission & Supplementary 2018/2017/2016 Admissions)*

Time : Three Hours

Max. Marks: 75

**Section A****Answer any 8 (2 marks each)**

1. What is meant by Osazone reaction?
2. What is Carboxymethyl cellulose? Explain.
3. Write down the criteria for purity of lipids.
4. Explain the formula 18:2 n-3.
5. What are Fibrous proteins?
6. What is allosteric inhibition?
7. Define Mutation.
8. What are the Non essential amino acids?
9. What is metabolisable energy?
10. What is mould inhibitors?
11. Describe Pelleted diets.
12. Define Biological value.

(2 x 8 = 16)

**Section B****Answer any 7 (5 marks each)**

13. What is Glycolysis ? Describe the steps involved in Glycolysis.
14. Briefly explain the fat digestion in fishes.
15. Give an account on the functions of protein.
16. Describe types of enzyme inhibition.
17. Write a note on translation.
18. Discuss the role of proteins in fish nutrition.
19. Describe the factors affecting energy requirements in fish.
20. Elucidate the advantages of live feeds.
21. Give an account on the different types of larval feeds used in aquaculture.
22. Sustainance ratio of feeds.

(5 x 7 = 35)

**Section C****Answer any 2 (12 marks each)**

23. Give an account on the classification of lipids and its role in aquaculture.
24. Give an account of water and fat soluble vitamins and their importance in aquaculture nutrition.
25. Which are the common animal protein sources used in aquaculture feed manufacture .
26. Write an essay on feeding devices used in aquaculture.

(12 x 2 = 24)