

Reg. No

Name

18P224

MSc DEGREE END SEMESTER EXAMINATION- APRIL 2018
SEMESTER 2 : AQUACULTURE AND FISH PROCESSING
COURSE : 16P2AQCT06 ; BIOCHEMISTRY AND NUTRITION OF FIN FISH & SHELL FISH
(Common for Regular - 2017 Admission & Supplementary - 2016 Admission)

Time : Three Hours

Max. Marks: 75

Section A
Answer any 8 (2 marks each)

1. Define buffer. Give one example.
2. Differentiate oxidation and reduction.
3. What is mean by Saponification?
4. What are the three categories of PUFAs?
5. Criteria for purity of lipids.
6. Explain Nitrogen fixation.
7. What is Allosteric inhibition?
8. Differentiate between nucleoside and nucleotide.
9. Give examples for protein and steroid hormones in fishes.
10. What is Mimosine?
11. How lipids facilitate pellet manufacturing process
12. Describe Mechanical feeder.

(2 x 8 = 16)

Section B
Answer any 7 (5 marks each)

13. Write a short notes of Oligosaccharides.
14. Write a short note of Gluconeogenesis.
15. Write a short note of Essential fattyacids.
16. Briefly describe essential amino acids.
17. Differentiate Globular and fibrous proteins.
18. Describe types of enzyme inhibition.
19. Write a short notes on BOD.
20. Which are the common antivitamin factors found in feed ingredients.
21. What are anti-nutritional factors present in feed ingredients?
22. Indices of Protein quality

(5 x 7 = 35)

Section C
Answer any 2 (12 marks each)

23. Classification of lipids and their role in aquaculture nutrition.
24. Give a detailed account of DNA structure and replication.
25. Give an account of water and fat soluble vitamins and their importance in aquaculture nutrition.
26. Give an account of different feed additives used in aquaculture.

(12 x 2 = 24)