



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

B.F.Sc. 1st Semester Examination 2021

PAPER—BFSC-109

FISH NUTRITION

Full Marks : 50

Time : 3 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

THEORY

1. Answer any *ten* questions.

10×2

- (a) Define biological value.
- (b) Define protein efficiency ratio.
- (c) State on net protein utilisation.
- (d) What are essential amino acids?

- (e) What is TMAO?
- (f) What are the betains?
- (g) Write down the fat soluble vitamin in fish with their role in fish.
- (h) Give the name of fishes which contain richest source of Vitamin A and D.
- (i) What is retinol and 3,4-dehydroretinol?
- (j) What are the carotenoids?
- (k) What are ergocalciferol and cholecalciferol?
- (l) Name the different forms of tocopherols.
- (m) What are the major forms of vitamin K?
- (n) What is the vitamin B₁ deficiency syndrome in human?
- (o) State on non-protein nitrogen available in fish.

2. Answer any six questions. 6×5

- (a) Write a note on the important of fish in human nutrition.
- (b) What are source and role of riboflavin in human?
- (c) "Fermentation process enriches the nutrient value" – Discuss.
- (d) How frying of fish changes its quality?
- (e) How process of canning changes the protein components of fish products?

- (f) Write down the common effects of cooking in fish.
 - (g) What are the functions of Vitamin C and biotin in human body?
 - (h) Write down the nutritive value of small indigenous fishes.
 - (i) State the sources of minerals available in fish.
 - (j) What are the roles of fish lipids in human nutrition?
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