2019

B.Sc. (Hons.)

4th Semester Examination

AQUACULTURE MANAGEMENT

Paper - C8T

(Fundamentals of Biochemistry, Fish Nutrition and Feed Technology)

Full Marks : 40 Time : 2 Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

1. Write briefly on any *five* questions from the following: 2×5 =10

   (a) Define antioxidant. Give two examples

   (b) What are digestive energy and metabolizable energy?

   (c) Define unsaturated fatty acid. Give two examples.

   (d) What do you mean by essential amino acids? Cite *examples.*

[Turn Over]

(e) State about automatic feeder.

(f) What is antinutritional factor? Cite two examples.

(g) Enlist different factors affecting digestibility.

(h) What is rancidity? State different causes of rancidity.

2. Answer *four* questions from the following : 4×5=20

(a) Enumerate the nutritional deficiency diseases of fish.

(b) Classify different types of Carbohydrates.

(c) Give an idea about Michaelis-Menten equation.

(d) Discuss on fish feed storage.

(e) Write down the Pearson's Square method for feed formulation with an example.

(f) State about β-Oxidation process with specific role of enzymes.

3. Answer *one* question from the following : 1×10

(a) (i) What do you mean by feed additives?

(ii) Make a list of feed additives used in aquafeed preparation.

(iii) State about FCR and PER.

(iv) Add a note on protein digestion enzyme in fish. 2+3+3+2

(b) (i) Discuss about fish growth curve.

(ii) State about non-conventional fish feed ingredients.

(iii) Discuss the of steroid hormone in fish growth. 3+4+3
