DIPLOMA IN FISH PRODUCTS TECHNOLOGY (DFPT)

Term-End Examination

June, 2015

BPVI-044 : FISH BY-PRODUCTS AND WASTE UTILIZATION

Time: 2 hours Maximum Marks: 50

Note: Attempt any five questions only. All questions carry equal marks.

1. Define any ten of the following:

10x1=10

- (a) Fish meal
- (b) Denaturation of proteins
- (c) Isinglass
- (d) Shark fin rays
- (e) Agar
- (f) Fish sauce
- (g) Antioxidants
- (h) Fish silage
- (i) Nutraceuticals
- (i) Flocculation
- (k) Squalene
- (l) Collagen

- 2. (a) Describe the composition and nutritive value of fish meal. 5+5=10
 - (b) Explain the application of fish meal in livestock feeding.
- 3. Describe the method of production of isinglass. How it is used in clarification of beverages? 5+5=10
- 4. What is beche-de-mer? Describe the different steps in its production. 2+8=10
- 5. Explain the different applications of fish body oils. 10
- **6.** Explain the different steps in the extraction of agar.
- 7. Write short notes on any two: 2x5=10
 - (a) Carrageenan
 - (b) Sodium alginate
 - (c) Extraction of shark fin rays
- How are fish liver oils classified? Name any three methods for extraction of oil from class A livers.
 Mention the precautions to be taken for storage of fish liver oils.