

**NEW**  
**Part-III 3-Tier**  
**2015**  
**AQUACULTURE MANAGEMENT**

(Honours)

PAPER—VII

(PRACTICAL)

Full Marks : 100

Time : 6 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.*

Answer all questions.

1. Dissect and display pituitary gland from provided Carp head. Draw a labelled diagram of your dissection.  
(8+2)+(3+2)
2. Identify the provided specimen mentioning systematic position and specimen characters.
  - (a) Two Mollusca ; 3×2
  - (b) Two crustaceans ; 3×2
  - (c) Two ornamental fishes ; 3×2
  - (d) Two predatory fishes ; 3×2
  - (e) Two aquatic weeds : 3×2
  - (f) Two benthos. 3×2

(Turn Over)

3. Stain the supplied sample and identify gram +ve and gram - ve bacteria. Write down the principle, protocol and comment on your result.

6+1 $\frac{1}{2}$ +1 $\frac{1}{2}$ +1

Or

Prepare a culture media and isolate the microbial stain from the intestine of fishes. 10

4. Draw and design of home aquaria. Write down the procedure. 5

Or

Submission of Home Aquarium model. 5

5. Prepare a standard curve of BSA for protein estimation. 10

Or

Prepare two tonnes fish feed (30% Protein Content) with the help of Square Method of Hardy using following ingredients :

Fish meal :	54% Protein.	
Soybean meal :	62% Protein.	
Rice bran :	18% Protein.	
Maize dust :	22% Protein.	10

6. Submission of field report. 05
7. Submission of Laboratory Note Book. 9
8. Viva-voce. 10