

**OLD**

**Part II 3-Tier**

**2017**

**AQUACULTURE MANAGEMENT**

**(Honours)**

**PAPER—V**

**(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 the Digestive /Reproductive System of provided / Bivalves / Cephalopods . Draw a labelled diagram.** 15

*[Dissection — 8, Display — 2,  
Drawing — 3, Labelling — 2]*

*(Turn Over)*

2. Estimate the Ammonia / Salinity / Dissolved Oxygen from the provided water sample. Write down the principle and comment on your result. 10

[Estimation — 6, Principle — 2,  
Comment — 2]

3. Identify the provided specimen, mentioning systematic position (Vertebrate – upto order and Invertebrate – upto sub-class), Scientific name and Specimen characters':

(a) 4 fresh water fin fishes (*different order*). 4×3

(b) 3 Brackish / Marine water fin fishes (*different order*).  
3×3

(c) 3 fresh water/brackish water shell fishes. 3×3

[Systematic Position — 1, Scientific Name —  $\frac{1}{2}$ ,  
Specimen Character —  $1\frac{1}{2}$ ]

4. Estimate the fecundity from the provided fish specimen. Comment on your result. 10

[Estimation — 7, Comment — 3]

Or

Analyse the gut content from the provided fish specimen.  
Comment on your result. 10

[Gut content analysis — 7, Comment — 3]

5. Submission of *at least 5* fin fish/shell fish specimen with preserved condition & proper labelling from different aquatic habitat. 5×1
6. Submission of field report on 'Fish Landing Centre Visit'. 10

Or

Submission of Survey report on fish / shellfish / craft gears related topic. 10

7. Submission of Laboratory Note Book. 10
  8. Viva-voce. 10
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