

OLD
Part II 3-Tier
2016
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]
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*). 3×4

(Turn Over)

- (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
Analysis the gut content of the provided fish specimen.
10
[*Gutcontent analysis—7, Comment—3*]
5. Submission of *at least* 5 fin fish/shell fish specimen with
preserved condition collected from different aquatic
habitat. 5×1
6. Submission of field report on 'Fish Landing Centre Visit'.
10
Or
Submission of Survey report fish / shellfish / craft gears.
10
7. Submission of Laboratory Note Book. 10
8. Viva-voce. 10