NEW

Part II 3-Tier

2015

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 / Nervous / Reproductive System of provided Cephalopods / Behalves. Draw a labelled diagram.

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

2. Estimate the dissolved oxygen / ammonia / salinity content from provided water sample. Write down the principle and comment on your result.

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

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

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

(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.

[*Estimation—8, Comment—2*]
8+2

Or

Analyse the gut contents of the provided fish specimen.

[*Gut content analysis—8, Comment—2*]
8+2

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 Fish market Survey report. 10

7. Submission of Laboratory Note Book. 10

8. Viva-voce. 10