

2018

CBCS

1st Semester

AQUACULTURE MANAGEMENT

PAPER—C1T

(Honours)

Full Marks : 40

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Taxonomy, Anatomy and Biology of Fin Fishes and Shell Fishes

1. Answer any *five* questions : 5×2
- (a) Define ICZN. 2
- (b) Give scientific name and common name of one cephalopod and one Bivalves. 2

- (c) Define phylogenetic tree ? State its importance. 2
- (d) What is Clasper ? Mention its function. 2
- (e) Mention the name of associated digestive gland of fish. 2
- (f) States the importance of tagging. 2
- (g) What do you mean by Gonado Somatic Index ? 2
- (h) What is isometric and allometric growth of fish ? 2

2. Answer any *four* questions : 4x5

- (a) Discuss about morphometric analysis of fish. 5
- (b) Briefly describe the gill structure of body fishes. 5
- (c) Discuss Linnaean Hierarchy. 5
- (d) Describe the Accessory Respiratory Organ (ARO) of *Clarias batrachus*. 5

(e) Give an idea about Length weight relationship of fish

5

(f) Discuss about the circulatory system of prawn. 5

3. Answer any *one* question : 1×10

(a) (i) What do you mean by osmoregulator and Osmo Conformer ?

(ii) Classify different types of fish egg.

(iii) How do you calculate the age of fish ? 3+3+4

(b) (i) Define Homonymy and Synonymy with example.

(ii) State the Law of priority.

(iii) Give an idea about Type Concept.

(iv) Add a note on the importance of taxonomy in aquaculture. 3+2+3+2