2018

CBCS

## 1st Semester

## INDUSTRIAL FISH AND FISHERIES

PAPER-C1T

(Major)

Full Marks: 40

Time: 2 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.

Illustrate the answers wherever necessary.

## Taxonomy, Classification and Evolution of fishes

1. Answer any five questions:

5×2

(a) State the important properties of scientific nomenclature.

(Turn Over)

- (b) Define holotype and paratype with proper examples.
- (c) What is Macro taxonomy?
- (d) Give scientific name, one of each Gastropoda, Bivalvia, Crustacea and Cephalopoda.
- (e) Cite order name and example of Dipnoan fishes.
- (f) Give an idea about golden age of fish.
- (g) What do you mean by sibling species? Give example from fish.
- (h) Give one example of the following fish orders Beloniformes, Rajiformes, Mastacembeliformes and Symbranchiformes.
- 2. Answer any four questions:

4×5

- (a) Enumerate the role of taxonomy in aquaculture and biological control.
- (b) Discuss about fish bar-coading techinque.
- (c) Write a note on ICZN.
- (d) Briefly discuss about the evolutionary process of Bony fishes.

- (e) Classify Crustaces upto subclass with suitable examples.
- (f) Give an idea of phylogenetic tree.
- 3. Answer any one question:

1×10

- (a) (i) Define synonym and homonym with examples.
  - (ii) Discuss Law of priority.
  - (iii) What do you mean by nomen hybridum?
  - (iv) Write short note on living fossils of fishes.

    3+2½+2+2½
- (b) (i) Mention the order name of following fishes with characters: Heteropneustes fossilis, Pampus argenteus, Lates calcarifer and Ctenopharyngodon idella.
  - (ii) Define Sympatric and Allopatric speciation with proper explanation. 1½×4+4