2019

MAJOR

1st Semester Examination

INDUSTRIAL FISH & FISHERIES

Paper—C 1-T

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.

Taxonomy, Classification and Evolution of fishes

1. Answer any five questions :   5×2=10

    (a) Define binomial nomenclature.

    (b) Define cladogram? State its importance.

    (c) Write down the systematic position of *Scylla serrata* and *Bellamya bengalensis*.

    (d) What is living fossil? Give example from fish.

    (e) State about homonymy & Synonymy with proper example from fish.

[Turn Over]

(f) Mention the order name of following fishes : *Trygon* sp., *Harpodon* sp. *Tenualosa ilisha, Mystus gulio.*

(g) Write down the steps of Linnaean hierarchy.

(h) Mention name of 4 different types of fish of freshwater fishes.

2. Answer any four questions :   4×5=20

(a) Discuss about the morphometry study of fishes.

(b) Give an idea about Cataloguing of fishes.

(c) Write a note on ICZN.

(d) How to prepare a fin formula of a fish?

(e) Enumerate different approaches of molecular taxonomic study.

(f) State about biological species concept.

3. Answer any one question :   1×10=10

(a) (i) Discuss the rules of binomial nomenclature (5 rules).

   (ii) How to prepare a phylogenetic tree? 5+5

(b) (i) Write the characteristics and example of following order of fishes :

Squaliformes, Sygnathiformes, Cypriniformes, Beloniformes.

(ii) Write down the Systematic position of *Litopeneaus vannamei*.

(iii) Add a note on biological control with the help of fish. $(4 \times 1\frac{1}{2}) + 2 + 2$

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1