

**2008**

**M.Sc.**

**1st Semester Examination**

**AQUACULTURE MANAGEMENT & TECHNOLOGY**

**PAPER—AMT-1003**

**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 and Biology of Finfish & Shellfish)**

1. Answer any four of the following: 2×4
- a) What do you mean by silver eel?
  - b) Define bio-rhythms.
  - c) What is population?
  - d) Define allometric growth.
  - e) What are the processes of age determination in fishes?
  - f) What are the vitamin deficiency symptoms in fishes?
  - g) Write the names of 4 species belonging to the Mugilidae family.
  - h) Discuss the types of migrations found in fishes.

*(Turn Over)*

2. Answer any *four* of the following : 4×4

- a) State the natality & mortality in a fish population.
- b) Role of pineal gland in biorhythms.
- c) Classification of Eumalacostraca with living examples.
- d) Male choice copying in guppies.
- e) Importance of imprinting in fish migration.
- f) Habituation and fixed action pattern in fishes.
- g) Describe the types of fishways and their usefulness in migration.
- h) State the distinctive features of Dipnoi & mention the names of the living representatives.

3. Answer any *two* of the following : 8×2

- a) 'The growth in almost all of the aquatic animals is asymptotic'. — Justify.
  - b) Give a brief account of the male-male competition via cuckoldry as seen in blue-gill sunfish.
  - c) Migratory mechanism of Hilsa fish.
  - d) Classification of phylum Mollusca upto subclass with examples of some economic importance.
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