

2008

M.Sc.

1st Semester Examination

AQUACULTURE MANAGEMENT & TECHNOLOGY

PAPER—AMT-1001

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.

(Freshwater Fisheries Resource Diversity)

1. Write in brief (any four) : 2×4
- a) What do you mean by invasive fish species? Give one example.
 - b) Mention the name of one warm and one coldwater freshwater lake in India with at least two fish species from each lake.
 - c) What do you mean by beel fishery?
 - d) What is the role of Ganga Action Plan?
 - e) Enlist four important shellfish resources of Bay-of-Bengal with the scientific names of the respective shell fishes.
 - f) Mention the name of the biggest reservoir in India with its location, area and four finfish available in it.
 - g) Distinguish between penacid and non-penacid prawn.
 - h) Classify the inland capture fishery resources of India.
2. Write notes on any four of the following : 4×4
- a) Prospects of Canal fishery in West Bengal.

(Turn Over)

- b) Prospect of inland culture fishery resources in West Bengal.
- c) Prospects of Sports fishing in cold water fishery.
- d) Sundarban mangrove ecosystem and its fish faunal resources.
- e) Thermal Stratification of lake.
- f) Commercially important shellfish resources of Indian brackish water.
- g) Fisheries resources of Brahmaputra river system.
- h) Fishing methods adopted in reservoir.

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

- a)
 - i) What is reservoir?
 - ii) Classify the reservoir.
 - iii) Present status of reservoir fishery in India.
 - iv) Discuss the culture based fisheries in a small reservoir.

$1+1\frac{1}{2}+3+2\frac{1}{2}$

- b)
 - i) Discuss the hydrobiological features of Ganga river system.
 - ii) Enumerate the present status of Riverine fishery in India.
 - iii) Enlist the factors responsible for decline in riverine fish yield.

$2\frac{1}{2}+3\frac{1}{2}+2$

- c)
 - i) Enlist the cold water fishes in India.
 - ii) Discuss the Mahaseer breeding programme launched by Govt. of India.
 - iii) How would you conserve the cold water fishes?

$2+3\frac{1}{2}+2\frac{1}{2}$

- d)
 - i) "Invasive fish species are proving a shock to the ecosystem." — Explain.
 - ii) How do we combat with invasive fish species.

4+4