

2011

M.Sc.

1st Semester Examination

AQUACULTURE MANAGEMENT & TECHNOLOGY

PAPER—AMT-101

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. Answer any four of the following : 4×2
- a) What do you mean by backwater fishery?
 - b) Define invasive fish species. Give two examples from India.
 - c) Mention the name of one warm and one cold water freshwater lake in India with at least two major fish

(Turn Over)

species from each lake.

- d) What is the objective of Ganga Action Plan ?
- e) Define Oligotrophic and Euthrophic lake.
- f) What do you mean by beel fishery ?
- g) Add a note on Cephalopodan fishery in India.
- h) What do you mean by Chank fishery ?

2. Write on any *four* of the following : 4×4
- a) Discuss about present status of riverine fishery resources in India.
 - b) Write a notes on prospects of Sports fishery in India.
 - c) Enumerate the fisheries resource and management of Kanshabati reservoir.
 - d) Write down about Sundarban mangrove ecosystem and its fish faunal resources.
 - e) Discuss the factors responsible for decline in riverine fish yield.
 - f) Present status and prospects of Inland Culture fisheries resources in West Bengal.
 - g) Prospects of Canal fishery in West Bengal.

- h) "Tropical lake is more productive than temperate lake" — explain.

3. Answer any two of the following :

8×2

- a) i) Distinguish between reservoir from lake.
 ii) Classify the reservoir.
 iii) Enumerate the present status of reservoir fishery in India.
 iv) Discuss about culture based fisheries in a medium reservoir.

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

- b) i) Enlist the important edible Crustacean species found in India.
 ii) Discuss about the prospectus of Crab fishery in West Bengal.
 iii) Mention the important commercial molluscan fishes in India along with their distribution.

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

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

4+4

- d) 1) Enlist the important indigenous and exotic cold water fish species in India.
- ii) Discuss about Mahaseer breeding programme launched by Government of India.
- iii) Give an account of the cold water fisheries development strategies in India.

3+3+2
