2010

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 in brief any *four* of the following : 4×2

a) Mention the name of two reservoirs from each state — Tamilnadu, Madhyapradesh, Andhrapradesh and Kerala.

b) Enlist four commercially important freshwater shellfish species observed in West Bengal.

c) Crafts and gears used in riverine fisheries.

d) What do you mean by beel fishery ?

e) Mention the present position of India in respect of Asian Countries regarding culture and capture fishery.

f) What do you mean by Cephalopod fishery ?

g) What do you mean by 'Jhora fishery' ?

h) Mention the name and Head Quarter of two ICAR institute involved in Inland fishery research & fresh water fishery research.

2. Write on any *four* of the following : 4×4

a) Prospects of inland fishery resources in West Bengal.

b) Write a note on 'Ganga Action Plan'.

c) 'Crab culture — a profitable aquaventure in Indian Sundarbans' — Explain.

d) Explain the thermal stratification of lake.

e) Write a note on impact of stocking of reservoirs with example from case studies.

f) Explain the seed production of Golden mahasheer through flow-through hatchery.

g) Discuss about the sport fishing and tourism industry in Northern-region of India.

h) Enumerate the impact of invasive fish species to the eco-system.

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

a) i) Enlist the important Cold Water fish species in India.

ii) Discuss the present status of cold water fishery in India.

iii) Add a note on conservation strategies taken for indigenous cold water fish species.

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

b) i) Define reservoir and lake.

ii) Classify the reservoir.

iii) Discuss in detail the steps taken by the Fisheries Department, Govt. of West Bengal for fisheries management at Kangsabati reservoir.

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

c) i) Define mangroves.

ii) How does mangrove act as a nursery for Coastal fishery ?

iii) Discuss about the present status and prospects of Shellfish resources in Indian Sundarbans.

1+2+5

d) i) Enumerate the present status of Riverine fishery in India.

ii) Discuss the hydrobiological features of Ganga river system.

(iii) Enlist the factors responsible for decline in riverine fish yield.

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