# 2009

## M.Sc.

## 1st Semester Examination

## AQUACULTURE MANAGEMENT & TECHNOLOGY

**PAPER—AMT-1102**

*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.*

**(*Saline water fisheries diversity, Conservation, Management & Remote Sensing Technology*)**

**1.** Answer *in brief* (*any* four) : 2×4

a) Define EEZ and Nautical mile.

b) What do you mean by extinct fish ? Give an example from India.

c) What do you mean by backwater ? Mention 4 fish species from backwater.

d) Write the scientific names of the important commercially edible molluscan species — Oysters, Mussels, Clams, Cephalopods.

e) Mention two satellites used for Remote Sensing Technology relating to fishery resource observation.

f) Mention the names of sea weeds of commercial importance and the products obtained from them.

g) Write the names of two lobster species and two crab species found in West Bengal Coast.

h) What do you understand by maritime states of India ? Name them.

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

a) Effect of pollution on fish.
b) Present status and prospects of tuna fishing in Indian Ocean.
c) Conservation strategies and management of marine fishy resources in India.
d) Penacid shrimp fishery in Indian coast.
e) Bhery fishery in West Bengal.
f) Discuss the role of remote sensing in Fisheries resource identification.
g) Upswelling and fish productivity in sea.
h) Enlist the major shellfish and finfish groups in pulicat lake.

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

a) i) What do you mean by lagoon?
ii) 'Hydrological Intervention in Chilica paves the way for improvement in fishery productivity' — explain.
iii) Add a note on 'Chilica Development Authority'.
$1\frac{1}{2}+4\frac{1}{2}+2$

b) i) Give an account of the distribution, biology and fisheries of Bombay duck.
ii) Discuss the prospects of pelagic fishery in India.
4+4

c) i) What do you mean by an estuary?
ii) Enlist the major estuaries in India.
iii) Discuss about the fisheries potentially in Hooghly-Matlah estuary. $1\frac{1}{2}+4\frac{1}{2}+2$

d) i) Enlist the ICUN (2000) red list category.
ii) Enlist the 'Threatened' fish species found in West Bengal.
(iii) Discuss about *ex situ* conservation strategies of 'Endangered' fish. $2+2\frac{1}{2}+3\frac{1}{2}$