

**2010**

**M.Sc.**

**1st Semester Examination**

**AQUACULTURE MANAGEMENT & TECHNOLOGY**

**PAPER—AMT-102**

*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 Resource Diversity, Conservation, Management & Remote Sensing Technology)**

1. Write in brief any four of the following : 4×2
- Justify : a good year for Indian Oil Sardine is a bad year for Indian Mackerel.
  - Define nautical mile. Mention its relation with kilometer.
  - What do you mean by 'Bhasabandha' fishery?

- d) Write short note on 'Minamata' disease.
  - e) Enlist the important characteristics of Highly-Matlah estuary.
  - f) Define *in situ* and *ex situ* Conservation.
  - g) Explain upwelling and outwelling.
  - h) Mention any four salient features to support the fishery potential in the continental shelf zone.
2. Write on any *four* of the following : 4×4
- a) EEZ of India.
  - b) Crafts and gears used for the pelagic fishery.
  - c) How would you calculate the fish landing estimation in Chilica lagoon?
  - d) Elucidate that West Coast is more productive than East Coast.
  - e) Discuss the prospects of molluscan fisheries resources in Bay of Bengal.
  - f) Write down the problem and prospects of offshore fishing in India.
  - g) Discuss the prospects of mariculture in India.
  - h) Enumerate the remote sensing technology for PFZ identification in Indian sea.

3. Answer any two of the following :

8×2

- a) i) What do you mean by water pollution ?  
ii) What are the different sources of water pollution ?  
iii) Elucidate your ideas about the anthropogenic activities leading to the decline of fishery resources in India.

1+3+4

- b) i) Define brackish water and back water fishery.  
ii) Discuss about the fishery resources of Pulicat lake.  
iii) Briefly enumerate the contributing factors that lead to ecological crisis in the pulicat lake.

2+3+3

- c) i) What do you mean by Endangered Threatened and Vulnerable fish species with example from India ?  
ii) Discuss about the different modes of conservation of such species.

$4\frac{1}{2}+3\frac{1}{2}$

- d) i) What do you mean by Pelagic fishery?  
ii) Give an account on the distribution, biology and fisheries of Oil Sardine in Indian Ocean.  
(iii) Add a note on deep sea fishing policy in India.

$$1\frac{1}{2}+4\frac{1}{2}+2$$

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