

**2013**

**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. Answer briefly any four of the following question: 2×4
- Mention two lobster species and two crab species which are found in West Bengal Coast.
  - Mention the name of two Satellites which are used for fisheries resource identification in India. Define PFZ.

*(Turn Over)*

- (c) Define EEZ and Continental Shelf.
- (d) Name two Sea Weed Species found in Indian ocean. Mention the uses of Sea-Weed.
- (e) Define eutrophication.
- (f) Enlist the maritime states in India.
- (g) Define upwelling and outwelling.
- (h) What do you mean by back-water? Mention two names of fish species available in this water.

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

- (a) Prospects of Mariculture in India.
- (b) Fisheries resources in Sundarbans Mangroves.
- (c) Process of Remote Sensing for Identification of fisheries in the sea.
- (d) Chilka Development Authority.
- (e) Impact of Aquaculture on environment.
- (f) Zonation of sea.
- (g) Biomagnification.
- (h) Tuna fishery in India.

3. Answer any *two* of the following :

8×2

(a) (i) Define estuary.

(ii) Why estuarine ecosystem is more productive ?

(iii) Enlist different estuaries observed in India.

(iv) Mention the different causes of decline of aquatic fauna in the estuary.

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(b) (i) Define pelagic fishery and demersal fishery with example.

(ii) Give an account on distribution, production trends, means of exploitation, biology of Indian Mackerel.

(iii) Add a note on fisheries resources in pulicat lake.

3+3+2

(c) (i) What do you mean by 'Endangered', and 'Vulnerable' fish species ?

(ii) Define 'In-situ' and 'ex-situ' conservation.

(iii) Add a note on the different causes of aquatic pollution.

3+2+3

- (d) (i) Enumerate the cephalopodan fishery resources in India.
- (ii) Discuss about the prospects and problems of deep sea fishing in India.
- (iii) Add a note on Commercial exploitation of deep-sea crustaceans along the South West Coast of India.

2+3+3

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