

2008

M.Sc.

3rd Semester Examination

AQUACULTURE MANAGEMENT & TECHNOLOGY

PAPER—AMT-3001

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.

(Aquatic Biology)

Answer Q. No. 1 and any three from the rest.

- 1. Answer any five of the following: 2×5**
- a) Write. What you know about primary productivity of an ecosystem?
 - b) How many types of food chain are found in nature?
 - c) What do you mean by rhithron community?
 - d) What are zones of upwelling?
 - e) Write the importance of benthos in an aquatic ecosystem.
 - f) Why intertidal zone is more productive than other areas?
 - g) State the composition of Sea-water.

(Turn Over)

- h) What are the differences between natural and artificial ecosystem ?
- i) What do you mean by Spring and neap tides ?
2. a) What is thermocline ?
- b) Briefly illustrate the thermal stratification of a lake.
- c) Add a note on special types of lake. 2+5+3
3. a) What do you mean by ecological energetics ?
- b) Discuss the Lindeman's energy flow model with diagram.
- c) State the functions of ecosystem.
- d) Why ecosystem is called as self-sustaining system ?
2+4+2+2
4. a) Enumerate the physico-chemical characteristics of estuarine water body.
- b) Mention the faunal diversities of continental-shelf.
- c) Write the functions of decomposers. 4+4+2
5. a) State the geographical areas of Hooghly-Matlah estuary.
- b) Describe the potential fishery resources of Mahanadi estuary.
- c) Add a note on aquatic foodweb. 2+5+3
6. Write short notes on any *two* of the following: 5×2
- a) Coastal Resource Management in West Bengal.
- b) Structure of a Sea-beach.
- c) Conservation strategies of aquatic ecosystem.
- d) Zonation of Ocean.
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