2009

M.Sc.

1st Semester Examination

AQUACULTURE MANAGEMENT & TECHNOLOGY

PAPER—AMT-1101

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 four of the following questions :

2×4

a) What do you mean by dimictic and polymictic lake?

b) What do you mean by river ranching programme?

c) Define inversive fish species. How do they differ from exotic fish species?

d) Mention the name and location of one urban, one inland freshwater, one inland brackish water and one coastal lake in India.

e) What do you mean by Canal fishery? Name one canal and enlist important fish species in the canal.

f) What do you mean by chank fishery?

g) Distinguish between lake and pond.

h) Write on functions of National Lake Conservation Plan (NLCP).

(Turn Over)
2. Write notes on any four of the following: 4×4
   a) Demersal fisheries of West Bengal.
   b) Enumerate the beel fishery in Assam and West Bengal.
   c) Fisheries management at Govindasagar reservoir.
   d) Hydrobiological characteristics of Ganga river System at lower reaches.
   e) Mahaseer fishery in India.
   f) Gears used in inland fishing.
   g) Tropic depression of the reservoirs.
   h) Discuss about policy on alternative livelihood options for fisherfolk of Sundarbans mangrove.

3. Answer any two of the following: 8×2
   a) i) What do you mean by Shellfish fishery in India?
      ii) Enlist four edible crustacean and four edible molluscan fishery resources available in India.
      iii) Discuss the present status and prospects of molluscan fishery in West Bengal. 2+2+4
   b) i) What are the difference between lake and reservoir?
      ii) Discuss fisheries management of Kangsabati reservoir.
      iii) Add a note on impact of reservoir formation on native fish fauna. 2+4+2
   c) i) Discuss the current status of fisheries of Brahmaputra river, Assam.
      ii) Enumerate the prospects of Sport fishing in India. 4+4
   d) i) Mention the points regarding chief modes of lake origin.
      ii) "Tropical lakes are more productive than temperate one" — Explain.
      (iii) Discuss the fisheries resources of Loktak lake. 2+3+3