

**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