

NEW
Part-III 3-Tier
2019
AQUACULTURE MANAGEMENT
(Honours)
PAPER—VIII
(PRACTICAL)
Full Marks : 100
Time : 6 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.

Answer all questions.

1. Estimate the hardness / dissolved oxygen / alkalinity / Free CO₂ from supplied water sample. Write down principle and protocol. Comment on your result.
8+2+2+3
2. Estimate the organic carbon / total nitrogen / available phosphorus from the supplied soil sample. Write down the principle and protocol. Comment on your result in respect of aquaculture.
8+2+2+3

3. Identify the specimen with reasons mentioning systematic position, specimen characters and limnological comments:

- | | |
|-------------------------|-----|
| (a) Two Benthos | 3×2 |
| (b) Two aquatic insects | 3×2 |
| (c) Two Macrophytes | 3×2 |
| (d) Two Phytoplankton | 3×2 |
| (e) Two Zooplankton. | |

4. Identify the following items mentioning name, characteristics and use: 2×4

- (a) Hook / line
- (b) Gill net / Cast net
- (c) Sinker / float
- (d) Twine / rope.

5. Make a slide preparation from the body / gill scrap / card and stained with Gram's stain. Write down the principle and protocol. Comment on your result. 6+2+2+2

Or

Write in details of requirement in a Microbiology laboratory. Add a note on sanitization system in fish processing plant. 8+4

6. Submission of Practical Note Book. 10

7. Viva-Voce. 10