

**NEW**  
**Part-III 3-Tier**

**2017**

**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 available phosphorus/total nitrogen/organic carbon from the supplied soil sample. Write down the principle and protocol. Comment on your result in respect to aquaculture.**

8+2+2+3

- 2. Estimate the free carbon dioxide/hardness/dissolved oxygen/alkalinity from supplied water sample. Write down principle and protocol. Comment on your result.**

8+2+2+3

*(Turn Over)*

3. Identify the specimen with reasons mentioning systematic position, specimen characters and limnological comments :
- |                                       |     |
|---------------------------------------|-----|
|                                       | 30  |
| (a) Two phytoplankton ;               | 3×2 |
| (b) Two zooplankton ;                 | 3×2 |
| (c) Two aquatic weeds (Macrophytes) ; | 3×2 |
| (d) Two aquatic insects ;             | 3×2 |
| (e) Two benthos.                      | 3×2 |
4. Identify the following items mentioning name, characteristics and use :
- |                            |     |
|----------------------------|-----|
|                            | 2×4 |
| (a) Twine / rope / fibre ; |     |
| (b) Sinker / float ;       |     |
| (c) Hook / line ;          |     |
| (d) Cast net / Gill net.   |     |
5. Make a slide preparation from fish body / gill scrap / card and stained with gram stain. Write down the principle and protocol. Comment on your result.

6+2+2+2

Or

Discuss about the details of requirements 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