

M. SC. (ZOOLOGY)

(MSCZOO)

Term-End Examination

June, 2025

MZOE-003 : AQUACULTURE

Time : 2 Hours

Maximum Marks : 50

Note : Answer any *five* questions. All questions carry equal marks.

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| 1. (a) | Discuss the scope of aquaculture. | 5 |
| (b) | Explain the various components of a river system. | 5 |
| 2. (a) | What are cold waters ? Enumerate the commercially important fish of the Himalayan region. | 5 |

- (b) Discuss the distribution and biology of any *two* brackish water fishes. 5
3. What is cage culture ? How do you prepare cages for culturing aquacrops ? 10
4. (a) Give a broad overview of the spawning method undertaken in Bundh breeding. 5
- (b) How will you evaluate the genetic gain from selective breeding ? 5
5. Give an estimation of essential amino acid composition in muscle protein of different species of fish you have studied. 10
6. Name any *three* viral diseases of fish. List out the symptoms and mention the species affected. 10

[3]

7. Write notes on any *two* of the following :

5 + 5

- (a) Environmental monitoring and management plans for sustainable aquaculture
- (b) Initiatives of public and private sectors in aquaculture extension
- (c) Digital technology in aquaculture

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