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MZOE-003

M. Sc. IN ZOOLOGY

(MSCZOO)

Term-End Examination

June, 2026

MZOE-003 : AQUACULTURE

Time : 2 Hours

Maximum Marks : 50

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

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1. (a) Explain the trends in Indian aquaculture industry. 5
 - (b) Describe the physical and chemical properties of water. 5
 2. (a) What are cold water resources ?
Enumerate the commercially important fish of the Himalayan region. 5

(b) Discuss the biology of two major carps.

5

3. Mention different types of conventional aquaculture. Give a broad overview of aquaculture in pens. 10

4. (a) Briefly explain the mechanism of induced breeding in fish. 5

(b) Explain integrated aquaculture and its significance. 5

5. (a) Describe the importance of fish as a major source of dietary lipids. 5

(b) Write the classification of probiotic components in fish nutrition and their beneficial role. 5

6. Name any *four* viral diseases of fish. List out the symptoms of these diseases and mention the fish species affected. 10

7. Write notes on any *two* of the following : 5+5

- (a) Impact of intensive aquaculture on socio-economic resources
- (b) Fisheries extension education in human resources development.
- (c) Digital technology in aquaculture.

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