

M. Sc. (ZOOLOGY) (MSCZOO)

Term-End Examination

December, 2024

MZOE-003 : AQUACULTURE

Time : 2 Hours

Maximum Marks : 50

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

1. (a) Enumerate the different constraining factors for aquaculture development. 5
- (b) Explain with suitable illustrations the characteristic zones of marine environment. 5

2. (a) List out the different fish species in Indian reservoirs. 5
- (b) Discuss the biology of *Pinctada fucata* or *Holothuria scabra*. 5
3. What is meant by integrated aquaculture ?
Give a broad overview of the classification of integrated aquaculture. 10
4. (a) Give a broad overview of Bundh Breeding with a schematic diagram. 5
- (b) Describe the mechanism of sex reversal as a part of aquaculture practice. 5
5. (a) Describe the importance of fish as a major source of dietary protein. 6
- (b) How will you select the major ingredients for formulation of fish feed ? 4
6. Name any *three* bacterial diseases of fish. List out the symptoms of those diseases and mention the species affected. 10

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

- (a) Impact of intensive aquaculture on biological resources
- (b) Principles of extension education in fisheries
- (c) Technical challenges in aquaculture technology

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