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MZOE-003

M. SC. (ZOOLOGY)

(MSCZOO)

Term-End Examination

December, 2025

MZOE-003 : AQUACULTURE

Time : 2 Hours

Maximum Marks : 50

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

1. (a) Discuss the trend of fish consumption in the context of India. 5

- (b) How can you classify lakes based on their productivity ? 5

2. (a) Write a brief account on the aquaculture practices in the mangrove regions of India. 5
- (b) Discuss the distribution and biology of *Macrobrachium rosenbergii* or *Channa punctatus*. 5
3. (a) Differentiate among series pond, parallel pond and racial pond with a neat schematic diagram. 6
- (b) Discuss the different strategies adopted for treatment of sewage water to be used for aquaculture. 4
4. Enumerate the different methods of selection of species and desirable traits in aquaculture programme. 10
5. State the biological functions of major amino acids and fatty acids present in fish. 10
6. Name any *three* fungal diseases of fish. List out the symptoms of those diseases and mention the species affected. 10

[3]

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

5+5

- (a) Impact of intensive aquaculture on socio-economic resources
- (b) Role of Government of India in offering network of extension services in aquaculture
- (c) Major types of culture-based fisheries

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