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BAQ-002

**DIPLOMA IN AQUACULTURE
(DAQ)**

Term-End Examination

December, 2022

BAQ-002 : FRESHWATER AQUACULTURE

Time : 3 Hours

Maximum Marks : 100

Note : (i) *Attempt any **five** questions.*

(ii) *All questions carry equal marks.*

(iii) *Support your answer with well-labelled diagrams wherever necessary.*

1. How would you design and construct a hatchery for Indian carps ? Describe the management of nursery and rearing ponds for Indian carps. 20

2. (a) What is polyculture ? What are the basic principles of polyculture ? 2+8

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- (b) Illustrate the concept of polyculture using a suitable example. 10
3. (a) What is a Pearl ? Diagrammatically depict different types of pearls. 2+3
- (b) Describe the surgical procedures involved in the implantation of graft pieces for freshwater pearl culture. Also describe the mechanism of harvesting pearls. 15
4. (a) What are schizothoracids ? How and why are they artificially propagated ? 2+15
- (b) What is meant by 'stripping' of fish ? 3
5. Describe the principles of Integrated Fish Farming. Give *one* suitable example and discuss it in detail. 20
6. Write short notes on any *four* of the following :
- 4×5=20
- (i) Induced breeding of Murrels

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- (ii) Diseases in grow-out systems of freshwater prawns
- (iii) Ancillary Aquaculture Practice of *Euryale ferox* (Makhana)
- (iv) Types of culture methods of Giant freshwater prawn
- (v) Importance of protein in fish nutrition