

DIPLOMA IN AQUACULTURE (DAQ)
Term-End Examination
December, 2022

BAQ-001 : BASICS OF AQUACULTURE

Time : 3 hours

Maximum Marks : 100

Note : Attempt *five* questions in all. Question no. 1 is *compulsory*. All questions carry equal marks.

1. (a) Define the following technical terms : $5 \times 1 = 5$
- (i) Ocean Ranging
 - (ii) Extensive Aquaculture
 - (iii) Net Primary Productivity (NPP)
 - (iv) Smolt
 - (v) Aquafeed
- (b) Draw Carbon cycle *or* Phosphorus cycle in nature. 5

(c) Match the following : 5×1=5

<i>Column I</i>	<i>Column II</i>
(i) Home aquarium	A. Best known source of Vitamin A and D
(ii) Chilling	B. Hardening and stiffening of the body
(iii) Fish and Shellfish	C. Degrading of fish tissue
(iv) Rigor mortis	D. A method of short-term preservation
(v) Autolysis	E. Artificially prepared tanks

(d) Expand the following abbreviations : 5×1=5

- (i) EIA
- (ii) DO
- (iii) ppm
- (iv) EEZ
- (v) FFDA

2. Discuss the various forms and methods of aquaculture practices followed for culturing organisms. 20

3. Describe the following : 2×10=20

- (a) Brackish water environment
- (b) HACCP concepts

4. (a) Discuss the basic aspects of habitat and biology of cold water fishes. 10

(b) Explain the breeding habitats and salinity tolerance of culturable candidate species of mariculture crustaceans. 10

5. Describe any **two** of the following : $2 \times 10 = 20$

- (a) Wastewater aquaculture
- (b) Keeping ornamental fishes in home aquarium
- (c) Future strategies in aquaculture development

6. Write notes on any **two** of the following : $2 \times 10 = 20$

- (a) Chitin and Chitosan
 - (b) Marketing of Fish
 - (c) Constraining Factors for Aquaculture Development in India
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