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BAQ–001

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

June, 2025

BAQ-001 : BASICS OF AQUACULTURE

Time : 3 Hours *Maximum Marks : 100*

Note : *Answer **five** questions in all, including question no. 1 which is compulsory. All questions carry equal marks. Draw a well labelled diagram wherever required.*

1. (a) Define the following terms : 1×5=5

   (i) Biomass

   (ii) Estuary

   (iii) Integrated Aquaculture

   (iv) Benthic region

   (v) Niche

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

(i) FAO

(ii) ICAR

(iii) CIFA

(iv) MPEDA

(v) EIA

(c) Choose the correct option from the parentheses : 1×5=5

(i) (Pond/Pen) culture is breeding and rearing of fish in natural or artificial basins.

(ii) The integrated aquaculture is a commodity culture practice which is said to have originated in (China/Japan) during the period of Ming dynasty.

(iii) An All India Coordinated Research Project on (brackish water/marine) aquaculture was launched by ICAR in 1973.

(iv) (Atlantic Salmon/Indian Carp) species dominates the international aquaculture scenario.

(v) Some larvicidal fishes like *Gambusia* is introduced for controlling (infestation of noxious aquatic weeds/mosquites).

(d) State whether the following statements are True (T) *or* False (F) : 1×5=5

(i) Pen culture is the oldest form of aquaculture.

(ii) Fishes possess essential amino acids that are often lacking in cereal protein substitutes.

(iii) For aquaculture of sessile invertebrates like oysters and mussels, bottom culture is the most popular method.

(iv) Grass carp is used for mosquito control.

(v) The 19th century did not witness any scientific development on aquaculture scenario of India.

2. (a) Discuss various fish culture practices followed in India. 10

   (b) Explain the constrains for a aquaculture development. 10

3. Describe the cycling of any *four* nutrients in the water. 20

4. (a) Describe the brackish water resources of India. 10

   (b) Describe the commercial prawn species for brackish water aquaculture in India. 10

5. Discuss the use of waste water for aquaculture. 20

6. (a) Describe the important commercial methods for preservation of aqua-products. 10

   (b) Explain the success stories of aquaranching. 10

7. (a) Discuss the possible impacts of aquaculture on physical resources. 10

   (b) Discuss the methods of extension services in aquaculture. 10

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