

**DIPLOMA IN AQUACULTURE (DAQ)**

**Term-End Examination**

**June, 2022**

**BAQ-001 : BASICS OF AQUACULTURE**

*Time : 3 hours*

*Maximum Marks : 100*

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

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1. (a) Define the following technical terms :  $5 \times 1 = 5$
- (i) Hazard Analysis Critical Control Point (HACCP)
  - (ii) Oligotrophic Lakes
  - (iii) Integrated Aquaculture
  - (iv) Net Primary Productivity (NPP)
  - (v) Sea Ranching
- (b) Fill in the blanks with the options given in the parentheses :  $5 \times 1 = 5$
- (i) Tilapia culture is a \_\_\_\_\_ (low/high) cost technology.
  - (ii) Where investment costs are high and land and labour are limited, \_\_\_\_\_ (intensive/extensive) aquaculture is the best choice.

- (iii) \_\_\_\_\_ (Nitrification/Denitrification) by bacteria is the biochemical reduction of oxidised nitrogen anions.
- (iv) \_\_\_\_\_ (*Penaeus monodon* / *Fenneropenaeus indicus*) is commonly known as Tiger shrimp.
- (v) \_\_\_\_\_ (Lotic/Lentic) water bodies move continuously in a definite direction.
- (c) Draw Nitrogen cycle or Sulphur cycle in nature. 5
- (d) Expand the following abbreviations : 5×1=5
- (i) FAO
- (ii) FRDC
- (iii) EEZ
- (iv) CIFE
- (v) CMFRI
- 2.** (a) Discuss an overall scenario for the present status of global aquaculture with respect to finfish, molluscs and aquatic plants. 10
- (b) Discuss the impacts of aquaculture on the environment. 10
- 3.** Write short notes on any **two** of the following : 2×10=20
- (a) Features of candidate finfishes and crustaceans for sea farming
- (b) Role of soil nutrients in pond productivity
- (c) Recreational Aquaculture

4. (a) Classify lakes on the basis of productivity. 10
- (b) Discuss the characteristic features of any five freshwater fish. 10
5. Discuss the important commercial methods used for preservation of fish to prevent the growth of micro-organisms. 20
6. (a) Describe the method of preparation of Fish Protein Concentrate (FPC). 10
- (b) Discuss the structure and function of fisheries cooperatives. 10
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