

**DIPLOMA IN AQUACULTURE (DAQ)**

**Term-End Examination**

**December, 2016**

**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 terms : 3×1=3
- (i) Eutrophic Lakes
  - (ii) Carrying Capacity
  - (iii) Rigor Mortis
- (b) Differentiate between the following terms : 3×3=9
- (i) Pen Culture and Cage Culture
  - (ii) Lake and Reservoir
  - (iii) Salting and Brining
- (c) Answer the following questions in one or two words : 2+1+1=4
- (i) Names of two shrimps as principal aquaculture species.
  - (ii) Scientific name of "milk fish".
  - (iii) Location of the first scientifically designed fish farm in India.

- (d) Expand the following abbreviations :  $4 \times 1 = 4$
- (i) ECS
  - (ii) FFDA
  - (iii) CICFRI
  - (iv) CRZ
2. List the various non-conventional methods of aquaculture. Describe any one of them in detail. 20
3. (a) Fish is a highly nutritious food. Justify the statement by describing its important constituents. 15
- (b) List any four candidate species suitable to be cultured in brackish water. Describe any one of them in detail with respect to their physical and biological characteristics. 5
4. (a) Explain the characteristics, structure and important activities of fisheries co-operatives in India. 10
- (b) Enumerate the methods used for the improvement of soil for aquaculture. 10
5. (a) Describe any two phytoplanktons. 5
- (b) Describe the inter-relationships between the biotic communities in an aquatic environment. 15

**6. Write short notes on any *four* of the following : 4×5=20**

- (a) Nitrogen Cycle
  - (b) Freezing Method of Fish Preservation
  - (c) Factors Affecting Primary Productivity
  - (d) Environmental Management for Sustainable Aquaculture
  - (e) Scope of Aquaculture
  - (f) Fermented Fishery Products
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