

**DIPLOMA IN AQUACULTURE (DAQ)**

**Term-End Examination**

**June, 2019**

00611

**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) Expand the following : 5×1=5
- (i) CRZ
  - (ii) MPEDA
  - (iii) ICAR
  - (iv) EEZ
  - (v) FCR
- (b) Differentiate between the following : 5×2=10
- (i) Pelagic and Benthic zone
  - (ii) Littoral zone and Limnetic zone
  - (iii) Pen and Cage aquaculture
  - (iv) Aquaculture and Aquaranching
  - (v) Air blast freezer and Contact blast freezer

- (c) Give one word for the following :  $5 \times 1 = 5$
- (i) The degradation of fish tissue by native enzymes
  - (ii) Naturally occurring polymer of N-acetyl D-glucosamine where monosaccharide units are linked by  $\alpha$  1 – 4 glycosidic linkage in shellfish
  - (iii) A shiny and lustrous substance extracted from scales of fin fish and used as a decorative coating
  - (iv) Processed eggs of sturgeon fish
  - (v) Traditional Japanese Surumi based products

2. Discuss the factors for choosing the fish species for aquaculture and the environmental impacts of aquaculture. 20
3. Describe different types of phyto and zoo-planktons in the aquatic environment. (Any five from each category) 20
4. (a) What are the characteristic features of candidate species for brackish water aquaculture? 5
- (b) Describe five important species of prawns that are used in brackish water aquaculture. 15

5. (a) What is integrated aquaculture ? Describe any one example of this system along with its benefits. 10
- (b) Outline the various steps required for preparing a project in aquaculture which can be submitted for a loan from a bank. 10
6. Write short notes on the following : 4×5=20
- (a) Constraints in Fishery Education
- (b) Carbon Cycle
- (c) Fermented Fishery Products
- (d) Challenges in Aquaculture
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