

**DIPLOMA IN AQUACULTURE (DAQ)**

**Term-End Examination**

00012

**December, 2014**

**BAQ-001 : BASICS OF AQUACULTURE**

*Time : 3 hours*

*Maximum Marks : 100*

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**Note :** Attempt any *five* questions. All questions carry equal marks. Support your answers with well labelled diagrams wherever necessary.

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1. (a) What are the criteria for selecting a species for aquaculture ? 10  
(b) Discuss the important constraining factors for aquaculture development. 10
  
2. (a) Give the diagrammatic presentation of zones in a lake and ocean (No description required). 10  
(b) Discuss the physico-chemical characteristics of an estuary and their impact on estuarine fauna. 10
  
3. (a) Define the following : 2×5=10
  - (i) Plankton
  - (ii) Gross primary productivity
  - (iii) Thermocline
  - (iv) Aqua-ranching
  - (v) Food web

- (b) Write short notes on the following :  $5 \times 2 = 10$
- (i) Integrated Aquaculture
  - (ii) Environment Impact Assessment
4. (a) Write an account of brackish water resources in India. 10
- (b) Name (scientific name) any five species used for brackish water aquaculture in India and classify them upto Order. 10
5. Comment upon the preparation and processing of products/byproducts of seaweeds and shellfishes for commercial use. 20
6. Write a detailed account of possible adverse impacts of aquaculture on environment. 20
7. Write about the general guidelines for construction and management of a pond for freshwater fish culture. 20
8. (a) Discuss the role of micro-organisms in fish spoilage. How can this be prevented? 10
- (b) Describe in detail any one method of long term preservation of fishes. 10
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