**BAQ-001**

# DIPLOMA IN AQUACULTURE (DAQ)
## Term-End Examination
## June, 2016

00446

### BAQ-001 : BASICS OF AQUACULTURE

*Time : 3 hours* *Maximum Marks : 100*

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

1. Attempt *all* parts.

   (a) Define the following terms : 3

       (i) Estuary

       (ii) Greenhouse aquaculture

       (iii) Surimi

   (b) Differentiate between the given terms : *3×3=9*

       (i) Agriculture and Aquaculture

       (ii) Gross and Net Primary Productivity

       (iii) Direct selling and Auction system

   (c) Answer the following questions in one or two words : *2+1+1=4*

       (i) Names of two Indian carps as principal aquaculture species.

       (ii) Give the scientific name of one organism used for pearl culture.

       (iii) Give the scientific name of the largest Indian prawn.

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(d)   Expand the following abbreviations :        *4*

    (i)    HACCP

    (ii)   FPC

    (iii)  NBFGR

    (iv)   MPEDA

2.  (a)  Discuss   the   future   strategies   in aquaculture development.        *10*

    (b)  Name the various methods used to judge the quality of fish products. Describe any one of them in detail. Which method is regarded   as   the   superior   one   and why ?        *2+6+2=10*

3.  (a)  What is industrial aquaculture ? List its characteristics as well as limiting features.   *10*

    (b)  What is Pearl Essence ? How is it prepared and what are its applications ?        *2+6+2=10*

4.  (a)  Describe the three main roles of bacteria in productivity .   processes   in   aquatic ecosystems.        *10*

    (b)  Describe   the   possible   impact   of aquaculture on the environment.        *10*

5.  (a)  Describe the salient details of pen culture. In spite of its potential, why is it not so widespread ?        *10*

    (b)  List five species of Mollusca and seaweeds each   which   are   used   for   mariculture. Describe one species of each in detail.        *10*

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

(a) Thermal Stratification

(b) Wastewater Aquaculture

(c) Mangroves

(d) Scope of Aquaculture

(e) Aquaculture Scenario in South Asia and
South-East Asia

(f) Fertilizer Application in Aquaculture

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