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BAQ-002

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

00266

June, 2016

BAQ-002 : FRESH WATER AQUACULTURE

Time : 3 hours *Maximum Marks : 100*

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

1. (a) Describe the morphological (phenotypic) characters, food and feeding habits and breeding of any one Indian major carp. *10*

(b) Discuss the role of pituitary hormones in induced breeding of carps. *10*

2. (a) List the important aquatic weeds in fishery ponds and briefly describe the methods of controlling them. *10*

(b) Why cannot raw sewage be directly used in aquaculture ? List the processes involved in the treatment of sewage. *10*

3. (a) Give the scientific names and distinguishing features of the following fishes : *10*

(i) A small catfish

(ii) A large catfish

(iii) A murrel

(iv) The climbing perch

(b) Give a brief account of different culture systems for air breathing catfishes. *10*

4. (a) Differentiate between male and female giant freshwater prawn, *Macrobrachium rosenbergii*. Draw diagrams of male and female reproductive systems of *Macrobrachium*, the giant freshwater prawn. *10*

(b) What are the different components of a prawn hatchery complex ? Briefly describe the rearing of prawn larva. *10*

5. (a) What is a pearl ? Name the three different types of pearls and differentiate between them. Also show the basic steps involved in freshwater pearl culture operations in the form of a flow chart. *10*

(b) Name any two diseases in freshwater fishes caused by parasitic protozoa. State their causative organisms, symptoms and preventive measures. *10*

6. (a) What is redd ? Describe the spawning behaviour of trouts in their natural habitats. *10*

(b) List the various categories of zooplankton as live feed organisms in aquaculture. What are the advantages of using microalgae as live feed ? *10*

7. Write short notes on any ***two*** of the following : *2×10=20*

(a) Integrated Rice-Fish System

(b) Applications of *Spirulina*

(c) Vitamin Deficiency Diseases in Fishes

(d) Hapa Hatchery