

No. of Printed Pages : 4

**BAQ-002**

**DIPLOMA IN AQUACULTURE (DAQ)**

**Term-End Examination**

**June, 2020**

**BAQ-002 : FRESHWATER AQUACULTURE**

*Time : 3 Hours*

*Maximum Marks : 100*

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*Note : (i) Attempt any five questions.*

*(ii) All questions carry equal marks.*

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1. (a) Give the scientific names of one Indian major carp and one Chinese carp and distinguish between male and female carp. 2, 8

(b) What is hypophysation ? Describe the technique of hypophysation for induction of breeding in carps. 10

**P. T. O.**

2. (a) State *three* reasons for which aquatic weeds are considered to be undesirable for fisheries. Explain their control measures. 10
- (b) What is the common name for *Tor putitora* and why is it called so ? Add a note on its spawning behaviour and the spawning ground. 2, 8
3. (a) Give *six* names of ornamental fishes for an aquarium, three each from egg layerer and live bearers. Write *two* differences between egg layers and live bearers fishes. 10
- (b) State the biological features of *Azolla* and the usefulness of its cultivation. How can it be useful in aquaculture practices ? 10
4. (a) What are shellfish ? Give an account of culture of Indian river Prawn *Macrobrachium malcolmsonii* with regard

to seed collection, obtaining optimum conditions for its culture and harvesting.

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(b) How has sewage been utilized in fisheries in West Bengal ? State the merits of using sewage for fisheries.

10

5. (a) Discuss the digestive system of freshwater mussel (*Lamelidens* sps.) with suitable diagram.

10

(b) Write a note on induced breeding and mass breeding of mussels.

10

6. Write notes on any *two* of the following :

10 each

(a) Rice-Fish system of integrated fish farming

(b) Freshwater pearl culture

(c) Live feed for fisheries

(d) Management practices for Prawn hatcheries.

7. (a) Which nutritional constituents are required in the diet of fish under culture ?  
What is the need to have them in the diet ?

10

- (b) Give a brief account of 'Trout Fisheries' in India.

10