

DIPLOMA IN AQUACULTURE

(DAQ)

Term-End Examination

December, 2024

BAQ-002 : FRESHWATER AQUACULTURE

Time : 3 Hours

Maximum Marks : 100

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

(ii) *All questions carry equal marks.*

(iii) *Support your answers with well-labelled diagrams wherever necessary.*

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) Describe the various methods of control of aquatic weeds. 10

2. (a) Illustrate the concept of composite fish culture taking the example of feeding habits of carps. 10
- (b) How has sewage been utilized in fisheries in West Bengal ? State the merits of sewage for fisheries. 10
3. (a) Why do Chinese consider pig as a “costless fertilizer factory moving on hooves” ? 5
- (b) Describe the food and feeding habits and reproduction of Mahaseer—the cold water fish. 6+6
- (c) What is meant by ‘stripping’ of fish ? 3
4. (a) Write a note on induced breeding and mass breeding of murrels. 10
- (b) What are shellfish ? Give an account of culture of Indian river Prawn *Macrobrachium malcolmsonii* with regard to seed collection, optimal conditions for its culture and harvesting. 10

5. (a) What is a 'pearl' ? Distinguish between various types of pearls. 2+3
- (b) Illustrate the reproductive system of a freshwater mussel with a note on the life cycle of its larva. 5+10
6. Describe the various diseases caused due to nutritional deficiency and imbalances. Also suggest a strategy for disease prevention and treatment. 10+10
7. Write short notes on any *two* of the following topics : 2×10=20
- (i) Eradication of weed fishes
- (ii) Live feed culture and its importance
- (iii) Method of feed formulation and its preparation

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