

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

June, 2021

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) Differentiate between the phenotypic characters as well as food and feeding habits of the silver carp and common carp. 5
- (b) What is Hypophysation ? Discuss the merits and demerits of different agents used to induce breeding of major carps. 10
- (c) Describe the different components of a carp hatchery. 5
2. (a) Give the definition of aquatic weeds and explain why they are undesirable. List the different types of aquatic weeds and mention how they can be eradicated. 14
- (b) Define weed fishes. How they can be controlled ? 6

3. (a) Discuss the various parameters to be considered for the construction of a pond in an aqua farm. 10
- (b) Why can raw sewage not be used for sewage-fed fish culture ? Describe sewage treatment before it is used for fish culture. 7
- (c) Why are proteins important in fish nutrition ? 3
4. (a) Compare any two fish-animal systems of your choice in integrated farming. 10
- (b) How are Makhanas and Singhadas cultured in ancillary aquaculture ? Which fishes should be cultured with makhana and why ? 5+5
5. (a) List the criteria for site selection for a trout farm. 5
- (b) Describe the distinguishing characteristic of any two species of Mahaseers and the regions where they are found in India. 8
- (c) What are Ornamental fishes ? Which two categories can they be grouped into ? Describe the culture, biology and breeding of any one fish from each category. 7

6. (a) Discuss the various parameters to be considered for fish feed formulation. 8
- (b) With the help of diagrams show how freshwater prawns can be distinguished from brackish water prawns. 2
- (c) Describe the process of culture of the Indian river prawn. 10
7. Write notes on any **four** of the following : 4×5=20
- (a) Catfish culture systems
- (b) Importance of live feed
- (c) Manures and fertilisers for culture ponds
- (d) Steps in the process of freshwater pearl culture
- (e) Nutrient recycling in integrated fish farming
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