DIPLOMA IN AQUACULTURE (DAQ) Term-End Examination December, 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.

- (a) List the different types of carp hatcheries.
 Describe characteristics and structure of any two of these hatcheries.
 - (b) What are the distinguishing morphological characteristics of mature male and female carps?
- 2. (a) Discuss any two bacterial and any two viral diseases of finfishes. Write a note on the strategy of disease prevention and any two fish disinfectants that can be used. 10+4

	catfish culture in our country remains
	unexploited ? How can C. batrachus be
	bred under simulated conditions? $4+2$
compor	is the importance and sources of various ments of a balanced diet for fishes. What is deficiency diseases caused by inadequate ats of vitamin A and vitamin E in $2+14+4$
	Discuss the management of ponds for the culture of the giant freshwater prawn. 10
	Describe the parameters and processes involved in artificial propagation of schizothoracids. 10
	Discuss the pond requirements for the culture of carps. What are their feeding habits?
	Describe the various basic steps in the process of freshwater pearl culture. 15
	What is the main principle and basic processes of the ecosystem of integrated

(b) What are the constraints due to which

3.

4.

5.

6.

3

fish farming?

- (b) Discuss how energy enters and flows in a seri-fish culture system. How is seri-fish culture carried out?

 4+5
- (c) What are the requirements for a successful trout culture? How can the male and female of Brown trout be distinguished from one another?

 6+2
- 7. Write short notes on any **four** of the following: $4\times5=20$
 - (a) Aquatic Insects and their Control
 - (b) Sewage-fed Fish Culture
 - (c) Biomineralisation of Pearl
 - (d) Ornamental Fishes
 - (e) Freshwater Prawn Diseases