

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

June, 2022

BAQ-002 : FRESH WATER AQUACULTURE

Time : 3 hours

Maximum Marks : 100

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

1. (a) Discuss briefly the endocrine control of reproduction in carps. 10
- (b) Name the substitutes of Pituitary Gland Extract (PGE) successfully used to induce breeding in major carps and discuss their role briefly. 10
2. (a) Describe the spawning behaviour and ecology of spawning ground of Mahseer – the cold water fish. 10
- (b) What are the strategies that aquafarmers ought to adopt to raise healthy disease-free fish ? 10

3. (a) Give the zoological names of five commonly encountered species of predatory fishes and also discuss the methods of eradicating them. 10
- (b) Name the best model of integrated fish farming from the viewpoint of input-output. Give details of this model. 10
4. (a) Describe the air-breathing organs of murels. 5
- (b) Why do Chinese consider pig as a “costless fertilizer factory moving on hooves” ? 5
- (c) Discuss the importance of seri-fish integration. 10
5. Describe the diseases caused due to nutritional deficiency and imbalances in grow-out system of fin fishes. 20
6. Write notes on any **four** of the following : 4×5=20
- (a) Feed Formulation
- (b) *Spirulina* Cultivation and its Application in Fish Farming
- (c) Pearl-sac Theory
- (d) Sexual Dimorphism in Trouts
- (e) Mixed Culture of ‘Small’ Catfishes (*Heteropneustes* and *Clarias*)
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