

**DIPLOMA IN AQUACULTURE (DAQ)**

**Term-End Examination**

**December, 2011**

**BAQ-002 : FRESH WATER AQUACULTURE**

*Time : 3 hours*

*Maximum Marks : 100*

*Note : Attempt any five questions. All carry equal marks.  
Support your answers with well labelled diagram  
wherever necessary.*

1. How would you design and construct a hatchery for Indian carps ? Describe the management of nursery and rearing ponds for Indian carps. 20
2. (a) Discuss about sewage fed fish culture and describe the process involved in sewage treatment. Discuss the prospect of sewage fed fisheries in India. 15  
(b) Discuss common constraints of grow out culture system in fresh water aquaculture. 5
3. (a) Describe spawning behaviour and ecology of spawning ground of Mahseer - the cold water fish. 10  
(b) List egg layers ornamental fishes and describe morphology identification and breeding pattern of any one of them. 10

4. (a) Describe culture practices of breeding of murels. 10  
(b) Describe the air - breathing organs of murels. 5  
(c) Write a short note on mixed culture of *Heteropneustes* and *clarias*. 5
5. Describe the farming method of fresh water giant prawn and also discuss their processing and marketing prospects. 20
6. (a) Define pearl. Diagrammatically depict different types of pearl. 5  
(b) Describe the surgical procedures involved in the implantation of graft pieces for fresh water pearl culture. Describe the harvesting mechanism of pearls. 15
7. Describe the diseases caused due to nutritional deficiency and imbalances in growout system of fin fishes. 20
8. Write short notes on *any four* of the following : 20  
(a) Feed formulation.  
(b) Eradication of weed fishes.  
(c) Hypophysation techniques.  
(d) *Spirulina* cultivation and its application in fish farming.  
(e) Mass breeding of murels.
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