

**DIPLOMA IN AQUACULTURE
(DAQ)**

**Term-End Examination
December, 2012**

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 diagram wherever necessary.

1. Describe semi-intensive carp culture technology for grow out culture system with reference to its feeding habit, pond requirements, control of aquatic weeds, removal of unwanted fishes, liming, manuring, stocking of ponds and harvesting. 20
2. Describe the management of nursery and rearing of ponds for carp fry and fingerlings of fresh water carps. 20
3. Describe Poultry - fish integrated farming. Discuss various problems and recommendations associated with poultry and fish system. 20
4. Discuss the advantages of providing live feed in hatcheries. How would you culture microalgae and what are the difficulties faced in large scale algal cultures ? 20

5. Differentiate between murrels and anabantids. 20
Describe natural and induced breeding of anabantids.
6. Define "nuclei" in pearl culture. Describe 20
surgical process for pearl culture along with proper diagrams and write about post-operative case.
7. (a) List any four common symptoms found in
fresh water fishes due to viral infection.
Mention the name of causative organism
and characteristic symptoms of any three
bacterial diseases. 4+6=10
- (b) List major nutrients for fish feed and 10
describe the importance of any two of them
in feed.
8. Write short notes on *any four* of the followings :
4x5=20
- (a) Spawning behaviour of trout
 - (b) Erythrocytic Inclusion body syndrome
 - (c) Hypophysation technique
 - (d) Clearance of aquatic weed
 - (e) Artificial feed and feeding