

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

December, 2014

00642

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) How can you differentiate between male and female carps ? Compare induced breeding in carp hatcheries with bundh breeding. 10
- (b) How is sewage utilized for polyculture of carps ? 10
2. What are the basic processes of the integrated fish farming ecosystem ? Describe the culture practices of the rice-fish farming system. 10+10
3. Describe the different culture systems and culture practices used for catfish. 20
4. Describe any two fungal and any two bacterial diseases each for the Giant freshwater prawn (*Macrobrachium rosenbergii*) hatchery and grow-out systems. 20

5. What are the essential components of a fish diet ? Describe the steps involved in fish feed formulation and preparation. 5+15
6. Describe the components of the hatchery system and hatchery operation for the Indian river prawn (*Macrobrachium malcolmsonii*). 20
7. What is mother of pearl ? Describe the surgical procedure for fresh water pearl culturing with proper diagrams. 5+15
8. Write short notes on any **four** of the following : 4×5
- (a) Control of aquatic weeds
 - (b) Makhana-cum-Fish culture
 - (c) Induced breeding by Hypophysation
 - (d) Importance of Living food in Aquaculture
 - (e) Egg-layer ornamental fishes
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