

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

June, 2015

00428

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. What is hypophysation ? Describe the technique of induced breeding in Indian major carps by hypophysation technique including dosage, embryo hatching and assessment of rate of fertilisation in your answer. 20

2. What is integrated fish farming ? Describe any two types of fish-crop systems and one fish-animal system. 20

3. Describe the breeding and hatchery management of freshwater prawn, *Macrobrachium rosenbergii*
OR *Macrobrachium malcolmsonii*. 20

4. (a) Why has the fish 'Mahseer' been given this name ? Give an account of reproduction, breeding season and spawning behaviour of Mahseer. 10
- (b) What is 'live feed' culture ? Write a note on its importance. 10
5. (a) What is a pearl ? Show through a flow chart the implantation techniques in freshwater pearl culture. 10
- (b) Describe biomineralisation of a pearl. 10
6. Describe the various bacterial and fungal diseases in fishes. 20
7. (a) What are ornamental fishes ? Differentiate between 'live bearers' and 'egg layers' giving two examples of each. 10
- (b) Describe the breeding and culture of any one 'live bearer' and any one 'egg layer'. 10
8. Write short notes on any **two** of the following : 10+10
- (a) Fish feed formulation
- (b) Management of nursery pond for carp breeding
- (c) Sewage fed fisheries
- (d) Culture of *Trapa bispinosa* (Singhara)
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