

**DIPLOMA IN AQUACULTURE
(DAQ)**

Term-End Examination

December, 2013

BAQ-002 : FRESH WATER AQUACULTURE

Time : 3 hours

Maximum Marks : 100

Note : *Attempt any five questions. All questions carry equal marks.*

1. Describe the principles of artificial propagation and culture of trouts in India. **20**

2. (a) Name the best model of Integrated Fish Farming from the viewpoint of input-output. Describe it in detail. **10**
- (b) Name any two diseases of each of the following in fish : **10**
 - (i) Parasitic
 - (ii) Bacterial
 - (iii) Viral
 - (iv) Fungal
 - (v) Nutritional Deficiency

3. (a) Describe any five of the following terms : **2x5=10**
 - (i) "Sport fishing"
 - (ii) "Spawn"
 - (iii) "Hypophysation"
 - (iv) "Anadromous"
 - (v) "Bundhs"
 - (vi) "Hapa"

- (b) Describe various types of aquatic weeds and discuss various control measures against them. 10
4. (a) What is "live feed" ? Describe methods of culture for any three live feeds". 2+15=17
 (b) What is meant by the statement that *Spirulina* has an "excellent aminogram" ? 3
5. (a) List the major nutrients in a fish's diet. Describe any one of them in detail. 2+15=17
 (b) What are shell fishes ? 3
6. (a) What are ornamental fishes and what are their major types ? 2+3=5
 (b) Describe the biology and breeding pattern of **any one** of them in detail. 10
 (c) Why are they commercially important ? 5
7. Write short notes on **any four** of the following :
- (a) Biology of silver carp 5
 (b) Polyculture 5
 (c) Implantation techniques in freshwater pearl culture 5
 (d) Culture of murels 5
 (e) Sewage treatment through aquaculture 5
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