

**DIPLOMA IN AQUACULTURE (DAQ)**

**Term-End Examination**

**June, 2018**

00010

**BAQ-003 : COASTAL AQUACULTURE**

*Time : 3 hours*

*Maximum Marks : 100*

*Note : Attempt any five questions. All questions carry equal marks. Support your answer with well-labelled diagrams wherever necessary.*

1. (a) Name two finfishes, two crustaceans and two molluscs which are used for coastal aquaculture in India. Discuss the criteria for selecting a candidate species for aquaculture. 12
- (b) Describe the distribution of marine life in different zones of the sea. 8
2. (a) Discuss the culture of pearl spot fish (*Etroplus Suratensis*). 10
- (b) Name the major units of a shrimp hatchery. What important steps should be taken for managing a good hatchery system ? 3+7

3. (a) Differentiate between the following :  $4 \times 2 \frac{1}{2} = 10$
- (i) Microcoated diets and Microencapsulated diets for shrimp larvae.
  - (ii) Integrated sea farming and polyculture.
  - (iii) Plankton and Nekton
  - (iv) Extensive and Intensive fish culture practices.
- (b) Describe any two bacterial and any two viral diseases of fishes. 10
4. (a) Write in brief the various steps involved in the preparation of ponds for culture of shrimps after harvest of crops. 12
- (b) How is the quality of shrimp seed assessed before stocking? 8
5. Give a brief account of nutritional requirements of brackish water fishes. Which raw ingredients can be used to meet these nutritional requirements? 10+10=20
6. (a) What is "Pearl sac"? How is it important for the formation of pearl in an oyster? 8
- (b) How are pearls cultured and graded for commercial purposes? 12

7. Write short notes on any *two* of the following : 2×10=20

- (a) Use of *Artemia* as live feed organism
  - (b) Economic importance of sea-weeds
  - (c) Animal adaptations in estuarine environment
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