

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

June , 2015

00228

BAQ-003 : COASTAL 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) 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. 3+9
- (b) Describe the distribution of marine life in different zones of sea. 8

2. (a) Differentiate between the following : 4×2
 - (i) Microcoated diets and Microencapsulated diets for larvae
 - (ii) Integrated sea farming and Polyculture
 - (iii) Plankton and Nekton
 - (iv) Extensive and Intensive fish culture practices

- (b) Describe two important viral diseases of shrimps in culture. What steps need to be taken for control and prevention of these diseases ? 6+6
3. (a) What is induced breeding ? How is it achieved in fishes ? 4+6
- (b) Name the major units of a shrimp hatchery. What important steps should be taken for managing a good hatchery system ? 3+7
4. Write a brief account of nutritional requirements of brackish water fishes. Which raw ingredients can be used to meet these nutritional requirements ? 10+10
5. (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
6. (a) Describe the natural process of pearl formation in oyster. 8
- (b) How are pearls cultured and graded for commercial purposes ? 12

7. Write short notes on any *two* of the following: 10+10

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