

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

December, 2012

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) Discuss the challenges being faced by the animals inhabiting estuarine ecosystems and how do they adapt themselves to this habitat ? 10
- (b) Explain the scope of mariculture in India with a note on the major drawbacks to the expansion of mariculture. 10
2. (a) What are the major criteria for site selection for shrimp hatchery ? Discuss the major facilities required in a shrimp hatchery. 12
- (b) Explain the advantages and disadvantages of batch culture, continuous culture and semicontinuous cultures of algae. 8
3. (a) Explain water intake distribution and drainage with the help of a diagram of a model shrimp farm. 8

- (b) Discuss the various steps involved in the preparation of ponds for shrimp culture after harvest of crop. 12
4. (a) Discuss bacterial, viral and fungal diseases of cultured fish. 12
- (b) Explain grow-out culture and monoculture of seabass (bhetki). 8
5. (a) Describe pearl harvesting, grading and economics of pearl culture. 12
- (b) Discuss about *any four* commercially important seaweeds that can be classified into agar yielding, agaroid yielding, algin yielding and edible sea, weeds. 8
6. Write short notes on *any two* of the followings :
 (a) Integrated Sea Farming and Polyculture
 (b) Nutritional Requirements of fish and shrimp larval
 (c) Brood stock Development and Maintenance. 2x10=20
7. Explain the importance of *Artemia* in aquaculture as a live feed organism. Explain culture of *Artemia* and their processing and storing the harvested product. 20