

DIPLOMA IN AQUACULTURE (DAQ)**Term-End Examination****December , 2015****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) What are the various undesirable species in a shrimp pond and how can they be controlled ? 5
- (b) Describe two bacterial diseases of fishes in culture. How can an outbreak of a disease be prevented in a fish culture ? 5+10
2. (a) Diagrammatically depict the principal horizontal and vertical zones of the marine environment. (No description required) 5
- (b) Discuss the effect of salinity on the organisms inhabiting a marine environment. How do they osmo-regulate in this environment ? 10+5

3. (a) Describe the various techniques for isolating micro-algae for culture. 10
- (b) Give a brief account of culture conditions and two commonly used growth media for culturing micro-algae. 10
4. (a) Name four important cultivable species for shrimp culture. Compare the traditional systems of shrimp farming with that of extensive and intensive systems. 4+8
- (b) Explain with a suitable diagram, the layout of a brackish water farm for shrimp culture. 4+4
5. Write short notes on any *two* of the following : $2 \times 10 = 20$
- (a) Artificial diets for shrimp larvae
- (b) Mabe pearls
- (c) Induced breeding in fishes
6. (a) Discuss the various methods of culturing milk fish. 12
- (b) How are mud crabs harvested and packed for export purposes ? 8
7. What are seaweeds ? Give a detailed account of commercially important products obtained from various species of seaweeds. 20