

**DIPLOMA IN AQUACULTURE (DAQ)**

**Term-End Examination**

**December, 2023**

**BAQ-003 : COASTAL AQUACULTURE**

*Time : 3 Hours*

*Maximum Marks : 100*

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**Note :** (i) *Attempt any five questions.*

(ii) *All questions carry equal marks.*

(iii) *Support your answer with well-labelled diagrams wherever necessary.*

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1. (a) Give an account of the physico-chemical properties of estuaries. 5
- (b) Describe the salient features of marine ecosystems and marine organisms. 15
2. (a) Describe the various culture conditions required for algal growth. 10
- (b) Describe the culture practices of *Artemia*. 10
3. Discuss the water quality required for the survival, health and growth of prawns in their culture systems. 20

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4. Explain the pond preparation for shrimp culture. 20
5. (a) Describe the various aspects of culture of seabass (Bhetki or *Lates calcarifer*). 10  
(b) Discuss the nutritional requirements of fish and shrimps. 10
6. (a) Describe the different levels of feed management in fish and shrimp culture. 10  
(b) Discuss the culture of commercially important seaweeds. 10
7. Give an account of mollusc culture such as that of oyster, mussels and clams. 20
8. Write notes on any *four* of the following :  
5×4=20
  - (i) Pearl formation
  - (ii) Animal adaptations for life in brackish waters
  - (iii) Brackish water lakes and lagoons
  - (iv) Isolation techniques for culture of microalgae
  - (v) Layout and design of shrimp farms
  - (vi) Raw food ingredients

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