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BAQ-003

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

June, 2020

BAQ-003 : COASTAL AQUACULTURE

Time : 3 Hours

Maximum Marks : 100

Note : (i) Attempt any five questions.

(ii) All questions carry equal marks.

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

1. Give the names of *six* important major estuarine systems in India. Describe *any two* of the West Coast and *two* of the East Coast of India in detail. 4+4+4+4+4
2. Define brackish water ecosystem and discuss its physical and chemical characteristics. 2+9+9

3. Describe the distribution, biology and importance of *Artemia* in aquaculture. 20
4. (a) Differentiate between the following terms (any *four*) : $2\frac{1}{2}$ each
- (i) Stenohaline and Euryhaline
 - (ii) Pelagic and benthic environment
 - (iii) Batch culture and continuous culture of algae
 - (iv) Saline soil and alkaline soil
 - (v) Tow net and Seine net
- (b) What are the major challenges faced in mariculture ? How can these challenges be managed ? 10
5. Discuss the various culture methods of milkfish, *Chanos chanos* with respect to mono- and polyculture. 20

6. Describe the various nutritional requirements of fish and shrimp. Also add a note on feed additives. 15+5

7. (a) List the different viral, bacterial and fungal diseases of shrimp. Give a detailed account of any *two* of them. 7+4+4

(b) How do changes in environmental conditions impact the health of a shrimp ?

5

8. Write short notes on any *four* of the following :

5 each

(i) Pond Preparation for Shrimp Culture

(ii) Tiger Prawn Culture

(iii) Mangroves of India

(iv) Pearl Formation

(v) Isolation techniques of microalgae for culture