

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

December, 2018

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 answers with well - labelled diagrams wherever necessary.*
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- 1. (a) Enlist the physico - chemical characteristics of brackish water environment. 8
- (b) Discuss the ecological importance of mangroves. 12

- 2. (a) Describe the stratification of marine environment with the help of a diagram. 12
- (b) What is mariculture ? Why has it assumed greater importance recently ? 5
- (c) What do you understand by "Mabe Pearls" ? 3

3. (a) Differentiate between the following pairs :
 (any four) 2½x4=10
- (i) Nauplius and Zoea larva
 - (ii) Unialgal and Axenic Culture
 - (iii) Pens and Cages
 - (iv) Wet suspension diet and microparticulate dry diet
 - (v) Culture method for Echinoderms and mussels
 - (vi) Saline and Alkaline Soils
- (b) Explain the various techniques used for isolation of microalgae for culture. 10
4. (a) Why is shrimp farming important ? Which are the important cultivable species for shrimp culture ? 5
- (b) Illustrate the various factors affecting shrimp farming system. 15
5. (a) List the names of six soil parameters required for monitoring of aquaculture and discuss any two of them in detail. 15
- (b) Write a note on the role of metabolites affecting shrimp species. 5
6. (a) What are the various factors required for improvement of quality of pearls ? 10
- (b) Describe any two fungal and any two viral diseases afflicting fishes. 10

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

topics :

10+10=20

(a) Feed additives

(b) Culture of edible oysters

(c) Role of "Live Feed" in Aquaculture
