

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

February, 2021

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) What are the major brackish water lakes of India ? Describe any **two** of them in detail. 2+4+4=10
- (b) Give an account of the important edible oysters and mussels found in the backwaters with their distribution in India. 10
2. (a) How does salinity play an important role in the ecological classification of organisms ? Explain. 10
- (b) Describe the flora and fauna of brackish water systems. 10

3. (a) Differentiate between the following pairs of terms : (any **four**) $4 \times 2 \frac{1}{2} = 10$
- (i) Epipelagic and Bathypelagic zone
 - (ii) Holoplankton and Meroplankton
 - (iii) Nauplius and Zoea larva
 - (iv) Mahua oil cake and Saponin
 - (v) Skimming net and Tidal set net
- (b) Name the various characteristics of pond water required to maintain its good productivity. Explain any **two** of them in detail. $3 + 3 \frac{1}{2} + 3 \frac{1}{2} = 10$
4. Discuss briefly different types of artificial feeds or diets used for feeding fish and shrimp larvae. 20
5. Discuss the various culture methods of Sea bass (Bhetki), *Lates Calcarifer* with respect to its monoculture and polyculture. 20
6. Outline the various steps involved in the preparation of the pelleted feeds. 20
7. Write short notes on any **four** of the following : $4 \times 5 = 20$
- (i) Biology of “Pearl Spot”
 - (ii) Osmoregulation in marine fishes
 - (iii) Induced breeding
 - (iv) Measures for control of bacterial and viral diseases in fish
 - (v) Commercially important seaweeds