

**DIPLOMA IN AQUACULTURE (DAQ)**  
**Term-End Examination**  
**June, 2021**

**BAQ-001 : BASICS OF AQUACULTURE**

*Time : 3 hours*

*Maximum Marks : 100*

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**Note :** Attempt *five* questions in all. Question no. 1 is **compulsory**. All questions carry equal marks.

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1. (a) Define the following terms : *5×1=5*
- (i) Sustainable Development
  - (ii) Mangroves
  - (iii) Autolysis
  - (iv) Aquaranching
  - (v) Standing Biomass
- (b) Differentiate between the following : *5×2=10*
- (i) Gross and Net Primary Productivity
  - (ii) Pen culture and Cage culture
  - (iii) Epilimnion and Hypolimnion
  - (iv) Roe and Caviar
  - (v) Surface soil and Subsoil

- (c) Explain the following : *5×1=5*
- (i) NABARD
  - (ii) EFA
  - (iii) ICAR
  - (iv) FFDA
  - (v) MPEDA
2. What are the characteristics that enable the candidate species to be cultured in brackish water ? Describe three fin fishes suitable for brackish water culture. *20*
3. (a) Explain the treatment steps of sewage water before its use in aquaculture. *10*
- (b) Explain greenhouse aquaculture. *10*
4. Explain the carbon and phosphorus cycle. *10+10*
5. What are the factors which determine choice of species of fish for culture ? *20*
6. Write short notes on the following : *4×5=20*
- (a) Fish Gelatin
  - (b) Pearl Essence
  - (c) Chitin and Chitosan
  - (d) Canning
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