

No. of Printed Pages : 5

**BAQ-003**

**DIPLOMA IN AQUACULTURE**

**(DAQ)**

**Term-End Examination**

**June, 2026**

**BAQ-003 : COASTAL AQUACULTURE**

*Time : 3 Hours*

*Maximum Marks : 100*

---

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

(ii) Question No. 1 is compulsory.

(iii) All questions carry equal marks.

(iv) Draw a well labelled diagram wherever required.

---

1. (a) Define the following terms :  $5 \times 1 = 5$

(i) Atoll

(ii) Bathyal

(iii) Bloom

(iv) Hadal

(v) Marine Snow

- (b) Fill in the blanks with the correct alternative given in the parentheses :

$$5 \times 1 = 5$$

- (i) Mussels are ..... (univalve/  
bivalve) molluscs attached to the  
substratum by their byssus  
threads.
- (ii) In mud crabs the larva which  
emerges from egg is called .....  
(Megalopa/Zoea).
- (iii) Banana shrimp *Penaeus  
merguiensis* breeds in .....  
(river/sea).
- (iv) In shrimps fertilization is .....  
(external/internal).
- (v) Adults of seabass *Lates calcarifer*  
are voracious ..... (herbivores/  
carnivores).

(c) Match the Column A with Column B :

5×1=5

**Column A**

**Column B**

- |                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| (i) Chilka lake          | (a) Heterosexual fishes                                            |
| (ii) Milk fish juveniles | (b) Post larvae and juveniles found in estuaries and adults in sea |
| (iii) Flathead mullets   | (c) Sedentary animal                                               |
| (iv) Speckled shrimp     | (d) Detritus feeders                                               |
| (v) Edible oyster        | (e) A coastal lagoon                                               |

(d) Write True (T) or False (F) : 5×1=5

- (i) Culture of edible mollusc is now recognised as an effective way of enhancing food production.
- (ii) The most abundant plant resources fixed to the sea bottom are primitive non-flowering plants called algae, popularly known as sea weeds.

- (iii) Estuaries are termed closed when freely connected to sea.
  - (iv) River in its deltaic region in Karnataka divides into a northern branch the Coleroon and a southern branch, the Cauvery proper.
  - (v) The salinity of the lake does not show annual change.
2. (a) Explain the features of salt marshes and mangroves. 12
- (b) Describe the stratification of marine environment. 8
3. (a) Discuss the designing criteria for shrimp/fish hatchery. 15
- (b) Give an account of the role of hormones in induced breeding. 5
4. (a) Discuss the factors affecting shrimp farming system. 10
- (b) What are the different techniques of stocking shrimps ? Explain briefly. 10

5. (a) Describe the biology of mud crab. 10  
(b) How is milkfish cultured in India ? 10
6. (a) Describe the crustacean resources of India and their culture methodologies. 14  
(b) Explain integrated sea farming and polyculture in context of mariculture. 6
7. Write short notes on any *two* of the following : 2×10=20  
(a) Biology of cultivable molluscs  
(b) Hatchery management  
(c) Soil quality  
(d) Raw feed ingredients  
(e) Pearl oysters farming

x x x x x