

BAQ-003

ASSIGNMENT BOOKLET

DIPLOMA IN AQUACULTURE

Optional Course
in

COASTAL AQUACULTURE

Valid from 1st January, 2023 to 31st December, 2023

PLEASE NOTE

- Diploma in Aquaculture is offered in two optional streams, **Freshwater Aquaculture** and **Coastal Aquaculture**. It comprises compulsory core courses on basics of aquaculture (14 credits) and optional courses on two specialized streams of Aquaculture that are fresh water aquaculture (14 credits) and coastal aquaculture (14 credits).
- The basic of aquaculture course for any stream of Diploma in Aquaculture has a compulsory component of 6 credits worth project work.
- Optional freshwater aquaculture and coastal aquaculture courses have 6 credits worth of laboratory course each.
- You cannot appear in the Term-End Examination of any course without registering for the course. Otherwise, your result will not be declared and the onus will be on you.



School of Sciences

**Indira Gandhi National Open University
Maidan Garhi, New Delhi-110068**

(2023)

Dear Student,

We hope you are familiar with the system of evaluation to be followed for the Diploma in Aquaculture Programme. At this stage you may probably like to re-read the section on assignments for Elective Courses in the Programme Guide (on page 10) that we had sent you after your enrolment. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation which would consist of **one tutor-marked assignment (TMA)** for this course.

Instructions for Formatting Your Assignments

Before attempting the assignment please read the following instructions carefully.

On top of the first page of your TMA answer sheet, please write the details exactly in the following format:

ENROLMENT NO.:

NAME :

ADDRESS :

.....

.....

COURSE CODE:

COURSE TITLE :

ASSIGNMENT NO.

STUDY CENTRE: DATE

PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.

- 1) Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- 2) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 3) Your answers should be precise.
- 4) While solving problems, clearly indicate the question number along with the part being solved. Be precise.
- 5) **This assignment will remain valid for one year from January 1, 2023 to December 31, 2023.** However, you are advised to submit it within **12 weeks** of receiving this booklet to accomplish its purpose as a teaching-tool. Answer sheets received after the due date shall not be accepted.

We strongly feel that you should retain a copy of your assignment response to avoid any unforeseen situation and append, if possible, a photocopy of this booklet with your response.

We wish you good luck!

ASSIGNMENT
(Tutor Marked Assignment)

Course Code: BAQ-003
Assignment Code: BAQ-003/TMA/2023
Maximum Marks: 100

1. a) What are Brackish water ecosystems? Describe in brief their physical and chemical characteristics. (5×2=10)
b) Explain in detail the stratification of marine environment.
2. a) Describe the major units of a shrimp hatchery. (5×2=10)
b) Describe the main components of artificial diets for larvae of fish and shrimp.
3. Write short notes on the following: (2½×4=10)
 - i) Planktons
 - ii) Mariculture
 - iii) Mangroves
 - iv) Stocking
4. What are different types of diseases found in fishes? Describe the major viral diseases found in fishes. (10)
5. Describe clam culture. Give the distinctive characters of some cultivable species of clam. (10)
6. What are seaweeds? Describe their economic importance. (10)
7. Describe pearl oyster farming. (10)
8. a) Describe extensive and intensive shrimp farming systems. (5×2=10)
b) Describe in brief various types of algal culture.
9. Briefly explain the various requirements for culture of *Artemia*. (10)
10. a) What are edible oysters? Give a brief account of their biology. (5×2=10)
b) Describe the major nutritional requirements of fish and shrimp.