

Diploma in Aquaculture

**Compulsory Course
in
Basics of Aquaculture**

(Valid from 1st January, 2024 to 31st December, 2024)

PLEASE NOTE

- Diploma in Aquaculture is a 28 credit programme. It comprises compulsory core course on Basics of Aquaculture and optional courses on two specialized streams of Aquaculture that are Freshwater Aquaculture and Coastal Aquaculture.
- The compulsory 'Basics of Aquaculture' course is worth 8 credits and has a component of 6 credits worth project work.
- Optional 'Freshwater Aquaculture' and 'Coastal Aquaculture' courses are of 8 credits each and 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**

(2024)

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, 2024 to December 31, 2024.** 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)
Basics of Aquaculture

Course Code : BAQ-001

Assignment Code: BAQ-001/TMA/2024

Maximum Marks: 100

1. Describe the following: (10)
 - a) Soil nutrients
 - b) Role of bacteria in productivity processes in aquatic ecosystem
2. Explain the following: (10)
 - a) Greenhouse Aquaculture
 - b) Recreational Aquaculture
3. Describe the following: (20)
 - a) Aquaculture practices and their origin
 - b) Methods of extension services in Aquaculture
4. What are cold water fishes? Name *six* fishes and describe *three* of them. (10)
5. Describe the success stories of Pacific Salmon and Japanese Prawn for aquaranching. (10)
6.
 - a) Describe the possible impacts of aquaculture on environment. (10)
 - b) Discuss the constraints in fisheries education. (10)
7.
 - a) Diagrammatically depict the following: (2×5=10)
 - i) The phases involved in planning and preparation for an aquaculture project
 - ii) Operational costs incurred in initiating and operating an aquaculture project
 - b) Explain the following: (2×5=10)
 - i) Thermal stratification in stagnant water bodies
 - ii) The Ganga River system in India as a fresh water resource