**BAQ-003** 

## ASSIGNMENT BOOKLET

# **DIPLOMA IN AQUACULTURE**

Optional Course in

# COASTAL AQUACULTURE

Valid from 1<sup>st</sup> January, 2024 to 31<sup>st</sup> December, 2024

## 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

(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)

### Course Code: BAQ-003 Assignment Code: BAQ-003/TMA/2024 Maximum Marks: 100

1.	a)	Give an account of the state-wise brackishwater aquaculture resources of India.	(5)
	b)	Explain briefly the feeding habits and spawning season of the grey mullet <i>Mugilcephalus</i> .	(5)
2.	Exp	lain the desirable characteristics of a candidate species for aquaculture.	(10)
3.		<b>five</b> nutritional requirements of fish and shrimp. Explain the importance of n of these nutrients.	(10)
4.	a)	Briefly describe the concept of preparation of pelleted feeds.	(5)
	b)	What are the control measures used for viral and bacterial infections?	(5)
5.	a)	Write a short note on the larval rearing of mud crabs.	(5)
	b)	Discuss the economic significance of mussel culture.	(5)
6.	a)	Write the effect of the pH of soil on aquaculture species.	(5)
	b)	Differentiate between monoculture and polyculture.	(5)
7.	a)	Discuss the ecological importance of mangroves.	(5)
	b)	How do upwellings and outwellings cause the circulation of nutrients in the coastal zone?	(5)
8.	Des	cribe <b>four</b> edible seaweed species suitable for culture in Indian coastal areas.	(10)
9.	Des	cribe pearl harvesting, pearl grading and economics of pearl culture in detail.	(20)