MZOE-003

ASSIGNMENT BOOKLET

M.Sc. (Zoology) Programme

(MSCZOO)

(AQUACULTURE)

Valid from 1st January, 2026 to 31st December, 2026

School of Sciences
Indira Gandhi National Open University
Maidan Garhi, New Delhi-110068

(2026)

Dear Student,

Please read the Section on assignments in the Programme Guide for M.Sc. (Zoology). A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation, which would consist of one tutor-marked assignment for this course. The assignment is in this booklet. The total marks for this assignment is 100, of which 40 marks are needed to pass it.

Instructions for formatting your Assignments

Before attempting the assignment please read the following instructions carefully:

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

ROLL NO.: ……

NAME: ……...

ADDRESS: ……

……

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COURSE CODE: …….

COURSE TITLE: ……..

ASSIGNMENT NO.: ……..…

STUDY CENTRE: ……..…..... **DATE:** …….……

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

2) Use only foolscap size writing paper (but not of very thin variety) for writing your answers.

3) Leave 4 cm margin on the left, top and bottom of your answer sheet.

4) Your answers should be precise.

5) Solve this assignment, and **submit the complete assignment answer sheets within the due date.**

6) The assignment answer sheets are to be submitted to your Study Centre within the due date. **Answer sheets received after the due date shall not be accepted. We strongly suggest that you retain a copy of your answer sheets.**

7) **This assignment is valid from 1st January, 2026 to 31st December, 2026.** If you have failed in this assignment or fail to submit it till its validity, then you need to get the assignment for the next year and submit it as per the instructions given in the Programme Guide.

8) **You cannot fill the examination form for this course** until you have submitted this assignment.

We wish you good luck.

ASSIGNMENT
(Tutor Marked Assignment)

Course Code: MZOE-003
Assignment Code: MZOE-003/TMA/2026
Maximum Marks: 100

Note: Attempt all questions. The marks for each question are indicated against it.

1.	a).	Discuss the different models for effective transfer of technology with respect to aquaculture.	(5)
	b).	Discuss the different principles of extension education in fisheries.	(5)
2.		Give an account of the classification of coastal regulation zone. Describe the regulation of activities in coastal regulation zone.	(4+6=10)
3.		Describe the structure of fisheries co-operatives in India. What are the activities of fisheries co-operatives?	(5+5=10)
4.		Describe the different types of vaccines used in aquaculture.	(10)
5.		Mention the causal organism and symptoms of any five parasitic diseases of fish.	(10)
6.		Describe the role of different minerals as nutrients of aquatic animals.	(10)
7.		Describe the different post-mortem changes that occur after the death of fish.	(10)
8.	a).	Discuss the method of spawning in a bundh.	(5)
	b).	Describe the biotic components of biofloc.	(5)
9.	a).	Discuss the preparation of cages for culturing aquacrops.	(5)
	b).	Write an account on the distribution and biology of any two brackish water fish species.	(5)
10.	a).	Discuss the trend of fish consumption in the context of India.	(5)
	b).	Give a comparative account of oligotrophic lake and eutrophic lake.	(5)