



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
DEPARTMENT OF BIOLOGICAL SCIENCES
2025_2 EXAMINATIONS

BIO410: Fisheries & Aquaculture

Time: 2½ Hours

Credit Unit: 3

Instruction: Attempt FOUR (4) questions only. QUESTION 1 is compulsory.

1

- a. What is fish processing? **(2marks)**
- b. State five (5) attributes of intensive fish culture. **(5marks)**
- c. List ten (10) examples of autochthonous sources of fish food. **(5marks)**
- d. State five (5) proper steps required for fish handling **(5marks)**
- e. Discuss the following steps of fish pond construction
 - i. Time of construction **(2 marks)**
 - ii. Preparation of Site **(3 marks)**
 - iii. Marking the outlines **(3 marks)**

2

- a. List 3 environmental factors that affect fecundity **(3 marks)**
- b. Briefly outline the importance of bottling and canning of fish in aquaculture **(3 marks)**
- c. Discuss the Cardiovascular system of a fish **(9 marks)**

3

- a. Outline the five (5) factors that determine the shape of a fish pond. **(5 Marks)**
- b. Provide the classification of fish with suitable examples based on their food and mode of feeding. **(10marks)**

4

- a. Explain the digestive system of a Fish **(7 Marks)**
- b. Provide a comprehensive account on the urinary system of a fish **(8 Marks)**

5

- a. Give a brief explanation of the adaptiveness of the fish's body shape to its environment. **(4 marks)**
- b. Expatriate on the need for the coverings on the body of the fish **(6 marks)**
- c. Explain harvesting (cropping) as one of the pond management systems. **(5marks)**

6

- a. Outline the criteria for fish to be considered cultivable **(5 marks)**
- b. Discuss the techniques for collection and preservation of the otoliths in a fish **(10 marks)**