

NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
DEPARTMENT OF BIOLOGICAL SCIENCES
2024 1 EXAMINATION

COURSE CODE: BIO 410

COURSE TITLE: FISHERIES AND AQUACULTURE

CREDIT UNIT: 3 UNITS

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY THREE OTHERS.

Q1

- a. State the steps in fermentation of fish (4marks)
- b. Use of one (1) of the listed analytical methods to explain food of fish determination. (4marks)
 - i. Gravimetric method
 - ii. Dominance method
- c. Provide an insight into fecundity. (5marks)
- d. Explain 'one preparatory and two decisive doses' and 'several preparatory and two decisive doses' of hormone administration in fishes. (6marks)
- e. State the functions of any two (2) of the listed components in fish. (6marks)
 - i. Endocrine pancreas
 - ii. Ultimobranchial gland
 - iii. Corpuscles of stannius

Q2

- a. Give the scoring card used in determining the stomach content of fish. (4marks)
- b. Explain harvesting (cropping) as one of the pond management systems. (5marks)
- c. List and explain the classes of fish culture systems based on the number and types of species cultured. (6marks)

Q3

- a. Write note on one (1) of the following; (3marks)
 - i. Semi-intensive fish culture
 - ii. Intensive fish culture
- b. List and explain six (6) requirement steps in construction of a pond. (12marks)

Q4

- a. Describe any four (4) of the listed components of fish. (6marks)
 - i. The trunk
 - ii. The cloacae