



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**UNIVERSITY VILLAGE, PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI**  
**- ABUJA.**

**FACULTY OF SCIENCE**  
**Department of Pure and Applied Sciences**  
**2021\_2 Examination**

**BIO 410 - FISHERIES & AQUACULTURE.**

**CREDIT UNIT: 3**

**TIME: 2½ Hours**

**INSTRUCTION: Answer question ONE (1) and any other FOUR (4) questions**

1. Based on the number and types of species cultured, explain the different farming techniques in aquaculture. (11 marks)
  - b. Hatchery management and reform will generally proceed from a hatchery premise: List and explain the five (5) main components of hatchery management. (5 marks)
  - c. Explain the importance of bottling and canning of fish in aquaculture (6 marks)
2. Discuss the relationship between the scales and the age fish. (12 marks)
3. List and explain the six (6) autochthonous food items consumed by fish. (12 marks)
4. Expatriate on the stocking processes in fish culture (12 marks)
5. Explain how to assess the condition of fish stomach visually before dissection for food study. (8 marks).
  - 5b. The entire life cycle of the aquaculture from egg to market-size product, is completed in a production line composed of stages, outline and explain any of the 4 stages. (4 marks).
6. Discuss the pre-excavation work of pond and dyke construction. (12 marks).