

NATIONAL OPEN UNIVERSITY OF NIGERIA 14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS MARCH/APRIL 2016 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: BIO410

COURSE TITLE: FISHERIES AND AQUACULTURE

TIME ALLOWED: 2HOURS

INSTRUCTION: ANSWER QUESTION 1 (COMPULSORY) AND ANY OTHER THREE QUESTIONS.

- 1. a. With the aid of an annontated diagram, describe the body of a bony fish (10marks)
- b. Write short notes on the following basic organs and systems in a fish:
- i. Integument (3marks)
- ii. Respiratory apparatus (3marks)
- iii. Lateral line system (3marks)
- iv. Digestive system (3marks)
- v. Endocrine pancreas (3marks)
 - 2. a. Outline **six** major objectives of food studies in fisheries **(6marks)**
 - b. Mention **six** different methods of analyzing food of fishes? **(3marks)**
 - c. Explain any **two** of these methods of analyzing food of fishes **(6marks)**
 - 3. a. State **six** significance of age and growth studies in fishes **(3marks)**
 - b. Outline **eight** steps involved in age and growth studies of fishes **(4marks)**
 - c. Explain the forms in which the growth of fish is estimated (3marks)
 - d. Mention **five** methods of studying growth of a fish **(5marks)**
 - 4. a. Briefly explain what you understand by fish culture **(4marks)**
 - b. Give **five** reasons why we practice aquaculture **(5marks)**
 - c. Based on the level of manipulation of the environment, explain **three** classifications of techniques involved in fish culture **(6marks)**

- 5. a. State **three** factors that determine the size of a fish pond **(3marks)**
 - b. State **four** factors determining the shape of a fish pond **(4marks)**
 - c. Outline the steps or procedures for pond management (8marks)
- 6. a. What do you understand by feed formulation? **(4marks)**
 - b. Explain the steps in feed formulation **(4marks)**
- c. With an example, briefly explain the term "best-by-technique" in diet formulation **(7marks)**