



National Open University of Nigeria
Plot 91, Cadastral Zone, NnamdiAzikiwe Expressway, Jabi - Abuja

FACULTY OF SCIENCE
2017_2 EXAMINATION

COURSE CODE: BIO 410 Course Title: Fisheries and Aquaculture (3 units)

TIME ALLOWED: 2½ HOURS

Instruction: Question 1 is compulsory and any other FOUR questions.

- 1a. Draw the clear structure of a bony fish identifying at least 10 of the external features. (8marks)
 - b. Describe the process of gas exchange in typical bony fish (6marks)
 - c. List any 3 qualities of Good water for fish pond management (3marks)
 - d. List the first 5 steps involved in fish drying (5marks)
2. Write short notes on the body shapes of the following fish species
- a. Barracuda (4Marks)
 - b. Flounder (4 marks)
 - c. Eel (4marks)
3. Write short notes on the following basic organs/systems in fish
- a. Corpuscles of Stannius (3marks)
 - b. Ultimobranchial Gland (3marks)
 - c. Pineal Gland (3marks)
 - d. Lateral line systems (3marks)
4. Explain how the following factors affect the feeding habit of fishes (12 marks)
- a. Size
 - b. Temperature
 - c. Competition
 - d. Preference/Selectivity
5. Discuss the following groups of fishes (12marks)
- a. Planktivores (4marks)
 - b. Predators (4marks)
 - c. Herbivores (2 marks)
 - d. Omnivores (2 marks)
6. a Explain the term 'Fecundity' (6 marks)
- b. Describe the gravimetric method of fecundity determination (4 marks)
 - c. List two types of constraints to fecundity (2 marks)