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NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA FACULTY OF SCIENCE

Department of Biological Sciences 2022 2 EXAMINATION

BIO 410 - FISHERIES & AQUACULTURE.

CREDIT UNIT: 3

TIME ALLOWED: 21/2 HOURS

INSTRUCTION: ANSWER FOUR QUESTIONS ONLY. QUESTION 1 IS COMPULSORY.

COURSE CODE: BIO 410

1a. Using a well labelled diagram, show 10 external features of a bony fish (8marks)

- b. Describe the process of gas exchange in typical bony fish (9 marks)
- 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 (5 Marks)
 - b. Flounder (5 marks)
 - c. Eel (5 marks)
- 3. Write short notes on the following basic organs/systems in fish:
 - a. Corpuscles of Stannius (3marks)
 - b. Ultimobranchial Gland (3marks)
 - c. Pineal Gland (4 marks)
 - d. Lateral line systems (5 marks).
- 4. Explain the effect of following factors on the feeding habit of fishes:
- a. Size (4 marks)
- b. Temperature (4 marks)
- c. Competition (4 marks)
- d. Preference/Selectivity (3 Marks)
- 5. Write briefly on the following groups of fishes:
- a. Planktivores (5 marks)
- b. Predators (5 marks)
- c. Herbivores (3 marks)
- d. Omnivores (2 marks)
- 6 a Explain the term 'Fecundity" (8 marks)
- b. Describe the gravimetric method of fecundity determination (5 marks)
- c. List two types of constraints to fecundity (2marks)