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: 2½ 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)