

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
DEPARTMENT OF FISHERIES AND AQUACULTURE TECHNOLOGY
2018/2019 RAIN SEMESTER UNDERGRADUATE EXAMINATION
FAT 306: FISH BIOLOGY **2 CR**
INSTRUCTION: ANSWER FOUR QUESTIONS, AT LEAST ONE FROM EACH
SECTION **TIME: 2 HRS: 30 MINS**

SECTION A

- 1a. Fish Biology is categorised into several division and as much as possible define the divisions
- b. Illustrate **five** most important and dominant forms and variation in shapes of fish with examples of fish of each body shape
- 2a. List **ten** scientific names of fish
- b. After a field trip to Oguta Lake, describe with distinguishing features of **two** species of fish you can identify from the Lake

SECTION B

- 3a. Describe in detail the functional anatomy of the following structures:
(i) Gas bladder. (ii) Intestine. (iii) Kidney. (iv) Liver
- b. Outline the different reproductive strategies employed in fishes
- 4a. What is the importance of food and feeding habit?
- b. Outline **three** different methods of determining feed and feeding habits

SECTION C

- 5a. Discuss respiration in fish
- b. Explain in detail osmoregulation in fresh water fishes
6. State the functions of kidney in fish
- b. Write short notes on the following terms:
 - i. Homeostasis
 - ii. Hypertonic
 - iii. Counter current
 - iv. Excretion in fish