



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA
FACULTY OF SCIENCE
2020_2 EXAMINATION

COURSE: BIO 410 - FISHERIES & AQUACULTURE.

CREDIT UNIT: 3

TIME: 2½ Hours

INSTRUCTION: Answer Question 1 and any other FOUR (4) Questions

1). Write short notes on the following:

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|--------------------------|-----------|
| i). Mouth of the fish. | (4 marks) |
| ii). Gills of the fish | (4 marks) |
| iii). Scales of the fish | (4 marks) |
| iv). Fins of the fish | (5 marks) |
| v). Respiration in fish | (5 marks) |

2. a. Give a comprehensive account on age determination of fish from the Otoliths (8 marks)
b. Write concisely on the lateral line system of a fish (4 marks)

3. a. Explain how fecundity in a female fish can be determined. (4 marks)
b. Write briefly on the ecological constraints of fecundity. (4 marks)
c. Expatriate on the biological constraints of fecundity. (4 marks)

4. a. Outline the 4 factors that determine the shape of a fish pond. (2 marks)
b. Classify fishes with suitable examples, based on their food and mode of feeding. (10 marks)

5. a. Give a comprehensive account on the Urinary system of a Fish. (6 marks)
b. Discuss the digestive system of a Fish. (6 marks)

6. a. Give a practical account of the steps involved in methods of age studies in fish. (6 marks)
b. Write briefly on the breeding mechanism in fish. (6 marks)