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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 2023\_1 POP EXAMINATION.

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BIO 410 - FISHERIES & AQUACULTURE. CREDIT UNIT: 3 TIME ALLOWED:2<sup>1</sup>/<sub>2</sub> HOURS INSTRUCTION: ANSWER FOUR QUESTIONS ONLY. QUESTION 1 IS COMPULSORY.

1a List 4 environmental factors that affect fecundity (2 marks)

- 1b. Describe the Cardiovascular system of a fish (9 marks)
- 1c. Explain the Purposes for Hatchery in aquaculture (6 marks)
- 1d. Identify the proper steps in fresh fish handling (4 marks)

1e State four demerits of the Numerical Method of Fish food analysis (4 marks)

2. Discuss Salting and Pickling as methods of fish preservation (15 marks)

3. Discuss the use of Hypophysation in fish breeding and propagation (15 marks)

- 4. Write short notes on the following basic organs/systems in fish
  - a. Corpuscles of Stannius (3 marks)
  - b. Ultimobranchial Gland (3 marks)
  - c. Pineal Gland (4 marks)
  - d. Lateral line systems (5 marks)
- 5. Write briefly on the following techniques of fish culture
  - (a) Extensive Fish Culture (5 marks)
  - (b) Semi- Intensive Fish Culture (5 marks)
  - (c) Intensive Fish Culture (5 marks)
- 6a. Categorize the different types of fish pond (5 marks)
- 6b. Discuss the following steps of fish pond construction
  - i. Time of construction (4 marks)
  - ii. Preparation of Site (3 marks)
  - iii. Marking the outlines (3 marks)