



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2023_2 EXAMINATIONS_

COURSE CODE: ESM 424

COURSE TITLE: FRESH WATER ECOLOGY

CREDIT: 2 Units

TIME ALLOWED: 2hrs

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry (15) marks each.

1a. What is fresh water ecology? **(2 marks)**

1b. Write an essay on the structure and characteristic of fresh water ecosystem **(23 marks)**

2a. Write a short note on sessile species in a lotic ecosystem **(5 marks)**

2b. Enumerate and explain any four (4) adaptations that enable animals survive in a lotic **(10marks)** ecosystem.

3. Write short notes on the effect of the following anthropogenic activities on a Fresh water **(15 marks)** ecosystem: (i) Hot water (ii) Removal of foliage (iii) Recreation use of water bodies (iv) Chemicals and (v) Other activities.

4. In sufficient details, discuss the scope of fresh water ecology **(15 marks)**

5. Explain the concept of food chain and Ecological Pyramids in a Fresh water ecosystem **(15 Marks)**