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## National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science APRIL/MAY, 2019 EXAMINATIONS

**COURSE CODE: ESM 424** 

**COURSE TITLE: Fresh Water Ecology.** 

**CREDIT: 2 Units** 

**TIME ALLOWED: 2 Hours** 

**Instruction:** Attempt question number ONE (1) and any other THREE (3) questions

- 1a) What are aquatic organisms? (1mark)
- 1b. What are aquatic macrophytes? (1mark)
- 1c. What are riparian vegetation? (1mark)
- 1d. Define the term Ecology (4marks)
- 1e. Describe the 5 major concerns of fresh water ecology as a discipline. (10marks)
- 1f. With specific examples, explain the key features of both the lentic and lotic habitats. (4marks)
- 1g. List the origins of the lentic freshwater envionment. (4marks)
- 2a. What is an Ecological Pyramid? (3marks)
- b. Describe the 4 main components of the living environment that make up the freshwater ecosystem. (12marks)
- 3a. List the two main sub-disciplines of aquatic ecology (2marks)
- 3b. Itemize any 4 sub-divisions of aquatic organisms. (4marks)
- 3c. Describe the 3 major functions riparian vegetation. (3marks)
- 3d. Briefly highlight the 6 major characteristics of aquatic microorganisms (6marks)
- 4a. What are benthic invertebrates and why are they important? (3marks)
- 4b. Identify the 4 major sub-groups of benthic invertebrates. (12marks)
- 5a. Describe the 3 types of fish based on their feeding type? (3marks)
- 5b. Highlight the main factors influencing the distribution of fish (6marks)
- 5c. Describe the mode of energy and food production by aquatic autotrophs. (6marks)