



**NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MAY/JUNE 2012 EXAMINATION**

ESM 424 FRESHWATER ECOLOGY (2 CR)
TIME ALLOWED: 2½ hrs

Instruction: Answer 4 questions out of 6

1. List and explain the main constituents of the living environment that form the fresh water ecosystem (25 marks)
2. Briefly explain what you understand by the term “ecological pyramid” in a freshwater ecosystem. (25 marks)
3. With appropriate examples, differentiate between phytoplankton and zooplankton species. (25 marks)
4. Discuss the significance of algae in lotic waters. (25 marks)
5. Explain the basic functions of autotrophs in an aquatic ecosystem(25 marks)
6. Attempt a simple classification of heterotrophs (25 marks)

