



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS**  
**MARCH/APRIL 2016 EXAMINATION**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**COURSE CODE:** ESM424  
**COURSE TITLE:** FRESHWATER ECOLOGY

**TIME:** 2 hours

**Instruction; Answer any for questions**

1. Discuss the four main constituents of the living environment that form the fresh water ecosystem. (17½ marks).
2. Discuss the scope of Fresh Water Ecology. (17½ marks).
3.
  - a. Differentiate between lotic and lentic water. (1½marks)
  - b. Mention the major factors that affect the concentration of oxygen in lentic fresh water communities (6marks)
  - c. Describe the main areas of the lentic freshwater environment (10marks).
4. Explain the existence of ecological pyramids in a fresh water ecosystem(17½marks)
5. Write short notes on each of the following
  - a. Aquatic fungi(5½marks)
  - b. Aquatic bacteria(7 marks)
  - c. Riparian vegetation(5marks)
6. Discuss the different ways in which man may interfere with any fresh water community.(17½marks)