



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS**  
**SEPTEMBER/OCTOBER 2015 EXAMINATION**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**COURSE CODE:** ESM 424

**COURSE TITLE:** FRESHWATER ECOLOGY

**TIME: 2 hours**

**INSTRUCTIONS: ANSWERS ANY FOUR QUESTIONS**

1. Many microorganisms play foundational roles in aquatic ecosystems. Mention and discuss five microorganisms that constitute part of the fresh water organisms. (17½marks)
2. Some of the abiotic factors affecting the functioning of the freshwater ecosystem are **temperature** related. .Discuss. (17½marks)
3. For each action that man takes in his lifestyle, there is a resultant effect on the ecosystem, discuss five of these effects on freshwater communities. (17½marks)
4. (a) Some animals have developed adaptations that allow them to travel through lotic the water without being inhibited in same spot. Discuss. (13½marks)  
(b) List four sources through which lotic water communities can be formed (4marks)
5. Elucidate the scope of fresh water ecology (17½ marks)
6. (a) Identify and explain the three main areas of the freshwater environment. (11½marks)  
(b) List the major factors affecting the oxygen concentration in lentic water. (6 marks)

