



National Open University of Nigeria
Plot 91, Cadastral Zone, NnamdiAzikiwe Expressway, Jabi - Abuja
Faculty of Science
2020_2 EXAMINATIONS

COURSE CODE: ESM424

COURSE TITLE: FRESH WATER ECOLOGY

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

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) Discuss the role of the following aquatic organisms in the fresh water ecosystem **(21marks)**

- i. Fish
- ii. Amphibians
- iii. Reptiles

1b) Outline the four main constituents of the living environment that form the fresh water ecosystem **(4marks)**

2) Highlight the factors which can affect the intensity and length of time that the ecosystem is exposed to sunlight **(15marks)**

3a) Elucidate on the physical and chemical factors that provide the framework of a running water community **(9marks)**

3b) Explain the adaptations that help lotic water communities' animals cope in their environment **(6marks)**

4) Succinctly discuss the floating aquatic macrophytes **(15marks)**

5a) List the four major group of organisms found in fresh water ecosystems **(2marks)**

5b) Discuss the activities of man in the management of fresh water ecosystem **(13marks)**