

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)