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National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science POP EXAMINATION 2022_2

COURSE CODE: ESM424 COURSE TITLE: Fresh Water Ecology CREDIT: 2Units TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other TWO (2) questions. Question number one (1) carries 30marks, while the other questions carry (20) marks each.

1a). What does the structure of fresh water ecology entail? (1mark)

1b). Enumerate on the major areas of concern of this fresh water ecology. (15marks)

1c). Explate on the function of floating aquatic macrophytes in the ecosystem (14marks)

2). Benthic invertebrate communities are often used as indicators of aquatic ecosystem health. Describe how the following benthic invertebrates contribute to this. (20marks)

i. Worms(3marks)
ii. Molluscs (3marks)
iii. Insects (9marks)
iv. Zooplanktons (5marks)

3a). List the two categories under which the study of ecology in freshwater is usually divided into? (**1mark**)

3b). What does the study of Marine Ecology entail? (3marks)

3c). Explain how the complex interrelationships between organisms allow an ecosystem to support such a wide variety of organisms(**7marks**)

3d). Explain how the following factors affect the intensity and length of time that the ecosystem is exposed to sunlight. (*9marks*)

4). Succinctly discuss the contribution of the following vertebrates in the effective functioning of the aquatic ecosystem(**20marks**)

- i. Fish(6marks)
- ii. Amphibians(7marks)
- iii. Reptiles(7marks)

5a). What are macrophytes? (1mark)

5b). Fungi and Phytoplankton are important in an aquatic ecosystem. Discuss their relevance (19marks)

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