



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
Department of Pure and Applied Sciences
2023 2 EXAMINATIONS_

COURSE CODE: BIO 405

COURSE TITLE: HYDROBIOLOGY

CREDIT UNIT: 2

TIME ALLOWED: 2HOURS

INTSRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER THREE (3) QUESTIONS

- 1a. Mention the basic types of freshwater ecosystem **5 Marks**
b. State the reasons why benthic invertebrate communities are used as prime indicators of environmental conditions. **4 Marks**
c. Highlight any six (6) point sources of eutrophication **6 Marks**
d. Describe the procedures for the enumeration of Sediment micro-fauna **10 Marks**
- 2a. Define water pollution **2 Marks**
b. Give a detailed overview of the need by Human to manage and use water sustainably **13 Marks**
- 3a. Macrophytes in freshwater systems live in both benthic and pelagic zones, describe the manner of growth of these plants. **6 Marks**
b. Write a comprehensive note on organic constituents as an important chemical nature of freshwater **9 Marks**
- 4a. Describe the fish potential of Lake Chilwa **5 Marks**
b. Write notes on bacteria community in a freshwater ecosystem **10 Marks**
- 5a Copy and complete the table below about Lake Tanganyika **4 Marks**

Physical Features	Information
Lake type	
Basin country	
Maximum Length	
Maximum width	
Surface area	
Average depth	
Surface elevation	
Settlements	

- b. Succinctly, describe the vegetation of Lake Chilwa

11 Marks