



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**Department of Pure and Applied Sciences**  
**2021\_1 EXAMINATIONS**

**COURSE CODE: BIO 405**

**COURSE TITLE: HYDROBIOLOGY**

**CREDIT UNIT: 2**

**TIME ALLOWED: 2HOURS**

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

- 1 (a) Name at least five (5) features of Physical and chemical nature of freshwater you know. **(5 marks)**
- (b) Describe the three basic types of freshwater ecosystem with examples **(6 marks)**
- (c) In a tabular form distinguish between lotic and lentic freshwater ecosystem. **(6 marks)**
- (d) List at least eight (8) different ecoregion of freshwater habitat you have been taught. **(8 marks)**
- 2 (a) Enumerate the factors that affect water quality. **(7 marks)**
- (b) Explain how difference types of water parameters are being determined. **(8 marks)**
- 3 Write short notes on the following:
- a. Water Distribution. **(5 marks)**
- b. Freshwater Habitats. **(5 marks)**
- c. Abiotic characteristics of freshwater ecosystem. **(5 marks)**
4. Explain the following:
- a. Large River Delta. **(5 marks)**
- b. Temperate floodplain River and Wetland complexes **(5 marks)**
- c. Tropical and Subtropical coastal River. **(5 marks)**
- 5 (a) Outline the causes of eutrophication. **(5 marks)**
- (b) Explain how agricultural activities lead to eutrophication. **(5 marks)**
- (c) Write concisely on the roles fishes played in aquatic ecosystem. **(5 marks)**