



NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi – Abuja

Faculty of Sciences

Department of Pure and Applied Sciences

APRIL/MAY, 2019 EXAMINATIONS

COURSE CODE: BIO 405: (2 CREDIT UNITS) TIME ALLOWED: 2HOURS

COURSE TITLE: HYDROBIOLOGY

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE QUESTIONS.

- 1a Enumerate the effects of water pollution on the ecosystem (**10marks**)
- 1b Why are benthic invertebrate communities regarded as prime indicators of environmental conditions? (**8marks**)
- 1c Outline the common symptoms and impacts of eutrophication (**7marks**)
- 2a List any five problems of eutrophication on human societies in Nigeria (**5marks**)
- 2b List any abiotic characteristics of a freshwater ecosystem (**5marks**)
- 2c Briefly itemise how to determine the major zones in a river ecosystem (**5marks**)
- 3a List any four techniques for the measurement of primary production in aquatic ecosystem (**4marks**)
- 3b Give a general overview of Benthic Invertebrates (**11 marks**)
- 4a Outline and describe briefly any 6 major natural vegetation types of the Lake Chilwa wetland (**12 marks**)
- 4b List the three types of Freshwater ecosystem (**3 marks**)
- 5a Describe how to enumerate sediments of microfauna (**7 marks**)
- 5b Define, with examples any two of the following freshwater habitats (**8 marks**)
 - i Montane Freshwaters
 - ii Xeric Freshwaters and Endorheic (Closed) Basins
 - iii Temperate Coastal Rivers