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National Open University Of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science

JANUARY/ FEBRUARY 2018 EXAMINATION

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

COURSE TITLE: HYDROBIOLOGY

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

- 1a Enumerate and any six Effects of Water Pollution on the ecosystem (6marks)
- 1b List and explain any four major causes of Eutrophication (12 marks)
- 1c Give a general overview of Benthic Invertebrates (7Marks)
- 2a Outline any five symptoms of eutrophication (**5marks**)
- 2b List any four problems of eutrophication on human societies in Nigeria (4marks)
- 2c List and define the three types of Freshwater ecosystem (6marks)
- 3a Briefly explain how to determine each the following water quality parameters
- i pH of Water Samples (2marks)
- ii Water Current (2marks)
- iii Total Suspended Solid (2marks)
- 3b What is a fresh water ecosystem? (5marks)
- 3c How would you determine the major zones in a river ecosystem? (4marks)
- 4a List the four main techniques for the determination of primary production in an aquatic system (4marks)
- 4b List the abiotic characteristics of a freshwater ecosystem (**5marks**)
- 4c Outline and describe briefly any 6 major natural vegetation types of the Lake Chilwa wetland (6Marks)
- 5a What are the major causes of diarrhoea (6marks)
- 5b Outline the Key measures to reduce the number of cases of diarrhoea (5marks)
- 5c Define any two of the following freshwater habitats (4marks)
- i Montane Freshwaters (2marks)
- ii Xeric Freshwaters and Endorheic (Closed) Basins (2marks)
- iii Temperate Coastal Rivers (2marks)