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## National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science Department of Biological Sciences 2022 2 EXAMINATION

**COURSE CODE: BIO405** 

**COURSE TITLE: HYDROBIOLOGY** 

**CREDIT UNIT: 2** 

**TIME ALLOWED: 2HOURS** 

INTSRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER TWO (2)

**OUESTIONS** 

- 1. (a) Write a short note on water related diseases. (4 marks)
  - (b) List the Major Habitat Types (MHTs) of freshwater reflecting groups of ecoregions (5 marks)
  - (c) Describe elaborately the term Hydrobiology? (5marks)
  - (d) Describe the measurement of primary production in aquatic systems using the following techniques:
    - (i) Variation in oxygen (8 mks)
    - (ii) Incorporation of inorganic carbon-14 (8 mks)
- 2. (a) List the importance of benthic invertebrates as indicators of environmental conditions. (4 mks)
  - (b) Outline the basic features of Kainji Lake. (5marks)
  - (c) Give a detailed description of the general nature of benthic invertebrates with emphasis on their mode of feeding. (11mks)
- 3. (a) Enumerate the four (4) macrophytes in freshwater system that lives in both benthic and pelagic zones. (3marks)
  - (b Briefly describe the sources of fresh water (6 marks)
  - (c) Highlight any **ten** (10) water-related parasitic diseases and their means of transmission in A Tabular form (10marks)
- 4. (a) Summarize how the following water quality parameters can be determined:
  - (i) pH (3 marks)
  - (ii) Nitrite (3 marks)
  - (b) Describe the various groups of macrophytes in freshwater systems and their distribution. (7 marks)
  - (c) Briefly describe the distinct communities of benthic organisms (7 marks)
- 5. (a) Write a short note on the freshwater ecosystem of Yankari National Park with emphasis on Wikki spring. (10 marks)
  - (b) Write a short note on diarrhoea as a water-related disease. (10 marks)