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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 2023_1 POP EXAMINATION

COURSE CODE: BIO405 COURSE TITLE: Hydrobiology CREDIT: 2 UNITS TIME ALLOWED: 2 HOURS INSTRUCTION: ANSWER NUMBER ONE (1) AND ANY OTHER TWO (2) QUESTIONS

 1a. Outline any three (3) Importance of benthic invertebrates as prime indicators of environmental conditions. (3 marks) b. List the techniques used in measuring primary productivity in freshwater ecosystem. c. Discuss the sources of freshwater ecosystem (5marks) d. Elucidate the four (4) macrophytes in freshwater system that inhabits in both benthic and pelagic zones. (6 marks) 	(4 marks)
e. Outline the problems of eutrophication on human societies	(6 marks)
f. Discuss the best management practices on how to control eutrophication.	(6 marks)
 2a. Enumerate the causes of water pollution in aquatic ecosystem. b. Explain the factors that affects water quality. c. Enumerate how difference the following water parameters are being determined: i. pH ii. Dissolved Oxygen iii. Chemical Oxygen Demand iv. water current v. Total Suspended Solid vi. Total Dissolved Solid vii. Nitrite level viii. Phosphate level 	(5 marks) (7 marks) (8 marks) ⁷ el
3a. Describe any four (4) major natural vegetation types of the Lake Chilwa wetlarb. Write concisely on the montane freshwaterc. Distinguished between primary productivity and secondary productivity.d. Describe the five (5) major natural vegetation types of the Lake Chilwa wetland.	nd. (4 marks) (2 marks) (4 marks) (10 marks)
4. Write short notes on the following in respect to freshwater:	
i. Colour and Turbidity	(5 marks)
ii. Organic constituents	(5 marks)
iii. Heavy metals	(5 marks)
iv. Nitrogen	(5 marks)
5a. Explain briefly how Carbon dioxide affect the quality of waterb. Differentiate point source and non-point source of pollution.c. Highlight the symptoms and impact of eutrophication.	(5 marks) (5 marks) (10 marks)