

National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science Department of Pure and Applied Sciences SEPTEMBER, 2020_1 EXAMINATIONS

COURSE CODE: BIO 405

COURSE TITLE: HYDROBIOLOGY

CREDIT UNIT: 2

TIME ALLOWED: 2HOURS

INTSRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER THREE (3)

QUESTIONS

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1. (a) Write sh (i) (ii)	nort notes on the pH Temperature	e following in relation freshwater ecosystem. (3 marks) (3 marks)	
(iii)	Light	(3 marks)	
(iv)	Phosphorus	(4 marks)	
(b) Briefly des	scribe the types	of freshwater ecosystem.	(4 marks)
(c) Mention 5 each of point and nonpoint sources of eutrophication.			(5 marks)
(d) Outline three (3) Importance of benthic invertebrates as prime indicators of environmental conditions.			
2. (a) In a tabular form, state six water pollutants with examples and their likely sources.(b) Highlight six (6) general features of benthic invertebrates.			(3 marks) (9 marks) (6 marks)
3. (a) Discuss briefly fresh water ecosystem.			(8 marks)
(b) Define t	(2 marks)		
(c) Mention	(2 marks)		
(d) Outline the three fresh water habitats.			(3 marks)
4. (a) Define the term eutrophication.			(2 marks)
(b) Outline the	(8 marks)		
(c) Differentiate	(2 marks)		
(d) Enumerate the factors that determine the depth and photosynthetic rate measurements in a			
pond/lake.			(3 marks)
5. (a) Outline the five major natural vegetation types of Lake Chilwa wetland and describe the species composition. (9 marks)			
(b) Outline the three (3) distinct types of benthic organism.			(6 marks)