

MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2016/2017**

SECOND YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FISHERIES AND AQUACULTURE AND BACHELOR OF SCIENCE IN AQUATIC RESOURCE CONSERVATION & DEVELOPMENT WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

AFN 202: LAKE VICTORIA STUDIES I: ENVIRONMENT AND ECOLOGY

Date: 19th June, 2017

Time: 8.30 - 11.30am

INSTRUCTIONS:

- Answer ALL Questions in section A and any other THREE in section B.
- Illustrate your answers with labeled diagram where appropriate

ISO 9001:2008 CERTIFIED



1. Explain briefly any FOUR factors that have contributed to rapid color	
of sections of Lake Victoria by water hyacinth	(4 marks)
 Using relevant examples, describe any FOUR ecological roles 	
of wetlands in the Lake Victoria basin	(4 marks)
(a) Give the meaning of Ramsar Convention	(1 mark)
(b) Explain briefly the THREE pillars of Ramsar Convention	(3 marks)
 Describe briefly the conditions that characterize aquatic ecosyst 	tems
with hypoxic conditions	(4 marks)
Name and explain briefly any TWO groups of aquatic macrophy	tes in
Lake Victoria	(4 marks)
Explain briefly the factors that influence light penetration in the	, manay
waters of Lake Victoria	(4 marks)
Explain briefly the ecological role of the zooplankton communitie	s (* marks)
of Lake Victoria	(4 marks)
Overfishing is a major problem in East African great Lakes.	(+ marks)
Explain the management challenges that have contributed to	
this problem	(4 marks)
9. Explain briefly any TWO factors that have influenced establishme	ant
of aquatic macrophytes in Lake Victoria	(4 marks)
10. Explain briefly the meaning and significance of residence time in	relation
to pollutants entering Lake Victoria	
	(4 marks)

Section B: Answer any THREE questions from this section

(30 marks)

11. Describe any FIVE negative impacts of water hyacinth in reference	ce to	
Lake Victoria	(10 marks)	
12. What are socio-economic effects of the introduction of Nile Perch	(10 manks)	
(Lates niloticus) in to Lake Victoria	(10 marks)	
13. Briefly describe phytoplankton species composition before and	(10 marks)	
after invasion of Lake Victoria by the water hyacinth		

14. (a) Give the meaning and significance of adaptive radiation in the cichlids

(2 marks)

(b) Explain any FOUR conditions that have facilitated adaptive radiation among cichlids of the great Lake Victoria

(8 marks)