



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2016/2017

**FOURTH YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN FISHERIES AND
AQUACULTURE AND BACHELOR OF SCIENCE IN AQUATIC
RESOURCES CONSERVATION AND DEVELOPMENT WITH
INFORMATION TECHNOLOGY**

MAIN CAMPUS

AFN 405: CURRENT ISSUES IN FISHERIES SCIENCE

Date: 6th December, 2016

Time: 12.00 - 3.00 pm

INSTRUCTIONS:

- Answer ALL questions in SECTION A and in SECTION B answer question 9 and any other THREE questions.
- Illustrate your answers with well labeled diagrams where appropriate.



Section A: Answer ALL questions from this section

(40 marks)

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1. (a) Give the meaning of overcapacity in relation to capture fisheries (2 marks)
(b) Outline any three indicators of overcapacity (3 marks)
 2. Name and explain any two post-harvest losses incurred in small scale fisheries (5 marks)
 3. (a) Define fishing property right (1 mark)
(b) Explain any two ways in which property rights can be made to work more efficiently (4 marks)
 4. Name and explain any two components of a fishery system (5 marks)
 5. Explain the meaning of market driven approaches such as MSC or ASC labels and explain how they are used in an attempt to rebuilding fish stocks (5 marks)
 6. Illustrate overfishing and overfished state of a fishery using MSY reference level (5 marks)
 7. Using Lake Victoria Nile perch fishery as a reference point, explain any two types of cross border conflicts experienced by the fishers (5 marks)
 8. (a) Distinguish between selective and non-selective gear (1 mark)
(b) Explain two ways in which bottom trawling can be destructive (4 marks)

Section B: Answer question 9 and any other THREE from this section

(30 marks)

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9. Discuss negative impacts associated with overfishing with reference to Lake Victoria (9 marks)
 10. (a) Describe the meaning of illegal, unreported and unregulated (IUU) fishing (3 marks)
(b) Explain the forms of IUU fishing experienced in the African Lake Fisheries (4 marks)
 11. Using a well labeled diagram, explain the following: territorial sea, contiguous zone, high sea, baseline and continental shelf (7 marks)
 12. (a) Explain the meaning of shared fish stocks (1 marks)
(b) Name and explain the two levels of cooperation in the management of shared fishery resources (3 marks)
(c) Outline the main components of interest in the 1995 UN Fish Stocks Agreement (3 marks)
 13. Discuss factors that have contributed to slow growth in aquaculture with reference to African countries (7 marks)