



## **MASENO UNIVERSITY**

### **UNIVERSITY EXAMINATIONS 2015/2016**

**THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE  
DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL  
SCIENCE WITH INFORMATION TECHNOLOGY**

### **MAIN CAMPUS**

### **NES 316: AQUACULTURE AND FISHERIES MANAGEMENT**

Date: 26<sup>th</sup> April, 2016

Time: 8.30 - 10.30 am

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#### **INSTRUCTIONS:**

- Answer Question ONE and any other TWO questions.



1. a) Explain three characteristics of aquaculture. [6 marks]
  - b) Describe the following aquaculture systems:
    - i. Pond culture [6 marks]
    - ii. Running water culture [6 marks]
  - c) Explain the role of the following in aquaculture production:
    - i. Liming [6 marks]
    - ii. Fertilization [6 marks]
  2. Discuss factors influencing the action of chemical fertilizers in aquaculture system. [20 marks]
  3. a. Explain the cycling of nitrogen element in aquaculture system. [10 marks]
  - b. Describe how "self-pollution" occurs in aquaculture system. [10 marks]
  4. Describe the water quality management interventions used in aquaculture. [20 marks]
  5. Suppose you have been appointed as a Fisheries Officer in Kisumu County mandated to manage Lake Victoria's Fisheries, Discuss the primary considerations critical for fisheries management. [20 marks]
  6. Discuss the institutional framework governing fisheries management in Kenya. [20 marks]
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