



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

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

MAIN CAMPUS

**NES 301: INDIGENOUS KNOWLEDGE SYSTEMS,
TECHNOLOGY AND THE ENVIRONMENT**

Date: 4th January, 2016

Time: 11.00 - 1.00 pm

INSTRUCTIONS:

- Answer Question ONE and any other TWO Questions.



Question ONE

1. (a) Briefly explain the meanings of the following:
 - (i). DNA 'fingerprinting'. [3 marks]
 - (ii). Diagnostic analysis of a problem. [3 marks]
 - (b) Examine the 'fallacy of super abundance' of resources within the context of modern technology in African countries. [8 marks]
 - (c) Describe the process of protecting new innovations in Kenya. [10 marks]
 - (d) Elicit three ways in which value judgment plays out when Technology (T) is applied in management of natural resource base. [6 marks]
2. Examine the main controversies surrounding the adoption of biotechnology in enhancing food security in Kenya. [20 marks]
 3. Discuss the unique characteristics of the relationship between Indigenous Knowledge Systems and environment before and after colonization in Kenya. [20 marks]
 4. Explain how modern technology and Indigenous Knowledge Systems (IKS) differs in management of solid wastes in urban areas. [20 marks]
 5. Discuss the role of Appropriate Technology in alleviating poverty in African Countries. [20 marks]
 6. Compare and contrast between 'critical observations' and 'evaluation on viability' used in Indigenous Knowledge Systems (IKS) to solve environmental problems. [20 marks]