



# **JARAMOGI OGINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

## **UNIVERSITY EXAMINATIONS 2012/2013**

### **FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN URBAN ENVIRONMENTAL PLANNING AND MANAGEMENT KISII LEARNING CENTRE**

**COURSE CODE: NES 802**

**COURSE TITLE: ENVIRONMENTAL PLANNING AND MANAGEMENT  
TECHNIQUES**

**DATE: 15/4/2013**

**TIME: 8.00-11.00AM**

**DURATION: 3 HOURS**

#### **INSTRUCTIONS**

1. This paper contains FIVE questions
2. Attempt Question 1(Compulsory) and ANY 2 Questions
3. Write all answers in the booklet provided

Q1. a) With the aid of examples discuss the major environmental implications of rapid urbanization in Eastern Africa [15 Marks]

b) With the aid of a diagram, elaborate the Urban Environmental Planning and Management process [15 Marks]

Q2. Assume that the Governor of Kisii County has appointed you as the Chief Environment Officer. Clearly outline how you will tackle urban environmental issues efficiently and effectively [20 Marks]

Q3. Discuss the role of County Governments in implementation of Agenda 21 [20 Marks]

Q4. A) Explain what you understand by Municipal Solid Waste (MSW) and in the process discuss innovative resource recovery techniques [12 Marks]

b) Provide a legal and moral basis for public participation in urban environmental planning and management [8 Marks]

Q5. Discuss the following environmental management techniques with the aid of relevant examples

- Land use zoning [10 Marks]
- Life-Cycle Assessment [10 Marks]