

## JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

## **UNIVERSITY EXAMINATIONS 2012/2013**

## 1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF ARTS IN SPATIAL PLANNING AND BACHELLOR OF SCIENCE IN ENVIRONMENT AND WATER RESOURCES MANAGEMENT

**COURSE CODE: PES 3111** 

COURSE TITLE: INTRODUCTION TO ENVIRONMENTAL STUDIES

DATE: 2/5/2013 TIME: 9.00-11AM

**DURATION: 2HOURS** 

## **INSTRUCTIONS**

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

- Q 1. a) Give a detailed account of the ecological services that accrue to mankind from the environment [15 Marks]
- b) 'Man is both a cause and victim of environmental degradation'. Discuss with the aid of relevant local examples [10 Marks]
- c) 'Environmental Studies is a trans-disciplinary course'. Rationalize this statement with the help of examples [5 Marks]
- Q2. a) With the aid of examples explain what you understand by Municipal Solid Waste (MSW) and discuss the main techniques for managing municipal solid waste [10 Marks]
- b) Discuss the challenges local authorities in Kenya face in their effort to manage Municipal Solid Waste

  [10 Marks]
- Q3. a) Provide a plausible plan of action for mitigating anthropogenic threats to underground and surface water resources in an urban human settlement [10 Marks]
- b) Identify and discuss major barriers to effective conservation of forest resources in Kenya [10 Marks]
- Q 4. a) 'Energy (production, transportation and utilization) is considered to be the single most important cause of climate change'. Discuss with the aid of relevant local examples [10 Marks]
- b) Provide innovative options for mitigating climate change [10 Marks]
- Q5. a) With the aid of examples draw a distinction between natural hazards and natural disasters

[5 Marks]

b) Provide plausible options for mitigating fire and flood-related disasters in a humanized

environment [15 Marks]

.