



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES**

**THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF
BACHELOR OF SCIENCE IN FOOD SECURITY - 2013/2014 ACADEMIC YEAR**

ALS 3314: LAND USE AND FOOD SECURITY

Instructions:

1. This paper consists of **TWO** sections, **A** and **B**.
2. Answer **ALL** questions from section A and any **TWO** from section **B**.
3. Write all answers in the booklet provided.

SECTION [30 MARKS]

Answer ALL questions in this Section

1. a) Define demography. [2 marks]
- b) Describe in detail, implications of human population on food security. [6 marks]
- c) Define environmental degradation. [2 marks]
- d) Explain agricultural activities that have negative impacts on the environment. [6 marks]
- e) Define land use. [2 marks]
- f) Define sustainable land use. [2 marks]
- g) Describe historical paradigms of environmental management and the evolution towards sustainability. [6 marks]
- h) Describe four food security indicators. [4 marks]

SECTION B [40 MARKS]

Answer ANY TWO questions in this Section

2. a) Discuss five key food security policy considerations in Kenya. [15 marks]
- b). Analyse five effects of land degradation on food security in Kenya. [5 marks]
3. Discuss in detail agricultural uses and management of wetlands. [20 marks]
1. Discuss ways of rehabilitating degraded agricultural land. [20 marks]