



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE  
& TECHNOLOGY UNIVERSITY EXAMINATIONS 2012/2013**

**2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATION FOR THE  
DEGREE OF BACHELOR OF SCIENCE IN FOOD SECURITY  
AGRI-BUSINESS MANAGEMENT**

**(REGULAR)**

**COURSE CODE: ALS 3216**

**COURSE TITLE: SOIL AND CIVILIZATION**

**DATE: 13 /8/13**

**TIME: 9.00 – 11.00 AM**

**DURATION: 2 HOURS**

**INSTRUCTIONS**

- 1. This paper contains FOUR (4) questions.**
- 2. Answer question 1 (compulsory) and ANY other TWO questions.**
- 3. Write all answer in the booklet provided.**

## Section A: 30 marks

### Question 1

- a) Explain the concept of land concentration as used in industrial agriculture showing its relationship with urban sprawl 4 marks
- b) Show relationship between civilization and urban rural migration 3marks
- c) Describe what you understand by smart growth 2 marks
- d) Explain the term civilization as described by Robert M. Adams 5 marks
- e) Define soil showing the relationship between man and soil 4 marks
- f) Describe the term Industrial Agriculture highlighting any **two** advantages and disadvantages to farming communities 4 marks
- g) Show relationship between civilization and green revolution 2 marks
- h) Explain the concept of zweckrational as described by Wendell (1977). 3 marks
- i) Explain the concept of alienation and show how it has contributed to fall of civilization in many communities 3marks

## Section B: 40 marks (Answer any TWO questions)

### Question 2

- a) Describe basic principles of land use planning. 10 marks
- b) In his book *Unsettling of America* (1977), Wendell Berry identifies elites responsible for fall of farming communities. Describe the elites and show role each has contributed towards fall off civilization of farming communities. 5 marks
- c) Explain the role of soil fertility on development of early civilizations of Mesopotamia and Egypt. 5 marks

### Question 3

Civilization and agriculture development led to rapid urbanization in major parts of the world without consideration to land use planning. Discuss major problems associated with unplanned growth. 20 marks

### Question 4

- a) Describe how civilization has contributed to food insecurity in many communities in the world. 10 marks
- b) Explain the relationship between civilization and bureaucratization of agriculture highlighting its influence on the family farm. 10 marks