

JOOUST  
UNIVERSITY EXAMINATIONS 2012/2013

SECOND YEAR FIRST SEMESTER EXAMINATION FOR  
THE DEGREE OF BACHELOR SCIENCE FOOD SECURITY

ALS 3216: SOILS AND CIVILIZATION

**Instructions:**

Answer **ALL** questions in **Section A** and **ANY TWO** questions from **Section B**

**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)**

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