



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND
TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
THIRD YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR THE
DEGREE OF BACHELOR OF SCIENCE IN FOOD SECURITY
2022/2023 ACADEMIC YEAR**

REGULAR

**COURSE CODE: ALS 3314. STREAM: BSC. FOOD SECURITY
COURSE TITLE: LAND USE AND FOOD SECURITY**

VENUE:

DATE: EXAM SESSION:

Instructions:

- 1. Answer Question 1 and ANY other TWO questions.**
- 2. Answers to Questions must be written in the Answer Booklets**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

QUESTION ONE

- (i) Define the following terms [10 marks]
- a. Land use planning
 - b. Bottom-up planning
 - c. Land units
 - d. Land-use systems.
 - e. Food insecurity.
- (ii) What are the advantages and disadvantages of bottom-up planning? [8 marks]
- (iii) Discuss the groups of people directly involved in land-use planning [9 marks]
- (iv) List any six symptoms of land-use problems [3 marks]

QUESTION TWO

- (i) Discuss importance and process of setting limiting values for land-use requirements [20 Marks]

QUESTION THREE

Discuss the methodologies for measuring the worth of a land-use system [20 Marks]

QUESTION FOUR

Giving examples, discuss the alternative land use appraisal taking into consideration environmental and social impacts [20 Marks]

QUESTION FIVE

- (i) Discuss the procedure of Matching land use with land [15 Marks]
- (ii) Differentiate between Qualitative and quantitative land evaluation [5 Marks]

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