



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**FOURTH YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR THE
DEGREE OF BACHELOR OF SCIENCE AGRICULTURE EXTENSION AND
EDUCATION**

4TH YEAR 1ST SEMESTER 2017/2018 ACADEMIC YEAR

REGULAR

COURSE CODE: AHT 3414.

COURSE TITLE: FIELD CROPS

**EXAM VENUE: LAB 13
Education)**

STREAM: BSc. (Agriculture Extension and

DATE: 15/12/17

EXAM SESSION: 9.00 – 11.00 AM

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in section A and ANY other 2 Questions in section B.**
- 2. Candidates are advised not to write on question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A [30 MARKS]

Answer ALL questions from this Section

1. What do you understand by the following terms:
 - a. Field crops (2 Marks)
 - b. Crop rotation (2 Marks)
 - c. Split fertilizer application (2 Marks)
 - d. Thinning (2 Marks)
2.
 - a) Name the two types of rice based on origin (2 Marks)
 - b) State the four ecosystems in which rice is grown (2 Marks)
 - c) What is tillering (2 Marks)
3. Explain the following terms as used in field crop production.
 - a. Ratooning (2 Marks)
 - b. Top dressing (2 Marks)
 - c. Chitting (3 Marks)
4. Briefly explain the meaning of the following terms and their contribution to field crop production and productivity.
 - a. Aeroponics (3 Marks)
 - b. Intercropping (3 Marks)
5. State three on farm tests that can be used to test whether a given cereal has attained correct moisture content for storage. (3 Marks)

SECTION B [40 MARKS]

Answer ANY TWO questions from this Section.

6. Maize is the staple crop for a majority of Kenyans, however, the country is not yet self sufficient in production of this important crop. Discuss reasons contributing to this. (20 marks)
7.
 - a) State the four categories of wheat. (4 Marks)
 - b) Wheat has become a vital crop in Kenya. Discuss production of wheat in Kenya (16 marks)
8.
 - a) Omondi is an aspiring rice farmer in Ahero irrigation scheme and needs advice on production of healthy seedlings, as the resident extension worker, outline the advice you will give to Omondi. (12 Marks)
 - b). Discuss two major diseases in rice production (8 Marks)
9. Discuss the production of any one of the following food security crops
 - a) Sorghum. (20 Marks)
 - b) Cassava (20 Marks)