



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

**FIRST YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR THE
DEGREE OF
MASTER OF SCIENCE IN AGRICULTURAL EXTENSION**

2022/2023 ACADEMIC YEAR

COURSE CODE: AEE 5114

COURSE TITLE: Agricultural Production Systems

EXAM VENUE: STREAM: MSc. (Agricultural Extension)

DATE: EXAM SESSION:

TIME:3 HOURS

Instructions:

- 1. Answer question ONE(COMPULSORY) and any other TWO Questions**
- 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.**

QUESTION 1 (COMPULSORY)

An emerging paradigm in agricultural production is to embrace agro ecological biodiversity in terms of environmental factors, plant and animal genetic resources, integrated crop – livestock farming, farmers inputs, amongst others. Discuss.

[30 Marks]

Question 2

Agricultural production systems in Kenya are undergoing marked changes due to rapid shifts in consumer demands. Discuss, giving examples of some systems being practiced in traditional farming.

[15 Marks]

Question 3

Explain the following:

- a) Effects of climate change on food production. **(6 Marks)**
- b) Gender effects on access to food. **(5 Marks)**
- c) Youth participation in agriculture in Kenya **(4 Marks)**

Question 4

Describe the activities: actors, drivers in sustainable food systems.

[15 Marks]

Question 5

Discuss three interventions in Agri food systems as a part of innovations in agricultural production systems.

[15 Marks]