



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

**FIRST YEAR FIRSTSEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION AND EDUCATION,
BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT AND BACHELOR
OF SCIENCE IN FOOD SECURITY**

2022/2023 ACADEMIC YEAR

COURSE CODE: APB 9101

COURSE TITLE: Introduction to Agriculture

EXAM VENUE:

**STREAM: BSc Agricultural
Education and Extension),
BSc (Agribusiness Management)
and BSc (Food Security).**

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in section A and B and ANY ONE Questions in section C**
- 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 [20 MARKS]

Answer ALL questions in this Section.

Question 1

- a) What is meant by the term agriculture? [2 Marks]
- b) Explain the concept of climate smart agriculture? [6 marks]
- c) What is a dual-purpose animal? Give two examples of a dual-purpose animal. [3 marks]
- d) States the roles of agriculture to the Kenyan economy. [5 marks]
- e) State the advantages of intercropping in agriculture. [4 marks]

SECTION B [30 MARKS]

Answer ALL questions in this section.

Question 2.

Explain the following in in the context of agriculture:

- a) Traditional agriculture [6 marks]
- b) Roles of livestock. [4 marks]

Question 3.

Giving examples, explain the benefits of agroforestry, [10 marks]

Question 4.

Explain the effects of temperature, rainfall and light on agricultural crops. [10 marks]

SECTION C [20 MARKS]

Answer ANY TWO questions in this section

Question 5

Discuss farming practices that promote sustainable soil management. [20 marks]

Question 6

Discuss the main cropping systems practiced by Kenyan farmers. [20 marks]

Question 7

Discuss the effects of climate change in agriculture. [20 marks]