



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF AGRICULTURAL AND FOOD SCIENCES**

**FIRST YEAR FIRST SEMESTER 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  
2016/2017 ACADEMIC YEAR**

**REGULAR**

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**COURSE CODE: APT 3114**

**COURSE TITLE: INTRODUCTION TO AGRICULTURE**

**EXAM VENUE: LAB 2**

**STREAM: (BSC. Agric. Ext. Educ. & BSC.  
Agribusiness management & BSC. Food Security)**

**DATE: 14/12/17**

**EXAM SESSION: 9.00 – 11.00 AM**

**TIME: 2 HOURS**

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**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 in this section

1. Define agriculture and explain its origin. [4 marks].
2. Explain how Swynerton Plan influenced agricultural change in Kenya. [5 marks].
3. Highlight the role of agriculture in economic development. [8 marks]
3. Describe **ONE** animal and **ONE** crop production system. [6 marks].
4. Giving examples, explain the role of biotechnology in agriculture. [4marks]
5. Outline the effect of climate on agriculture. [3 marks]

## SECTION B

[40 Marks]

Answer ANY TWO Questions in this section

5. Discuss the concept “**Agricultural Development**” and the role of national and international organisations in modernising agriculture. [20 marks].
6. Discuss the potential benefits of agroforestry and mixed cropping systems. [20marks].
- 7a. Explain the role of **Vision 2030** in reforming agriculture in Kenya. [10 marks]
- b. Discuss the importance of agro – industries in rural development. [10 marks]