



# **UNIVERSITY OF EMBU**

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**2016/2017 ACADEMIC YEAR**

**FIRST SEMESTER EXAMINATION**

**FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
AGRICULTURE AND BACHELOR OF SCIENCE IN AGRIBUSINESS  
MANAGEMENT**

**ACS 106: INTRODUCTION TO AGRICULTURE**

**DATE: DECEMBER 8, 2016**

**TIME: 11:00AM-1:00PM**

**INSTRUCTIONS:**

**Answer Question ONE and ANY Other TWO Questions.**

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**QUESTION ONE (30 MARKS)**

- a) List five agricultural activities that were devolved under the Constitution of Kenya, 2010. (5 marks)
- b) Give the mandate of the State Department of Livestock under the Ministry of Agriculture Livestock and Fisheries in Kenya. (1 mark)
- c) In relation to the use of biotechnology in crop improvement, briefly explain the controversies surrounding the use of genetically modified maize in Kenya. (5 marks)
- d) As a manager in a flower company, highlight the importance of planning in agribusiness. (5 marks)
- e) Outline the three main benefits of rearing indigenous chicken in Kenya. (3 marks)
- f) The definition of horticulture is more than garden cultivation. Discuss this statement in relation to modern horticulture. (2 marks)

- g) Outline the values of biodiversity. (3 marks)
- h) Distinguish between crop rotation and cropping pattern. (2 marks)
- i) Highlight the importance of organic matter in the soil. (4 marks)

**QUESTION TWO (20 MARKS)**

- a) Explain how export horticulture has alleviated poverty in Kenya. (2 marks)
- b) Explain four ways of determining maturity of fruits and vegetables. (8 marks)
- c) Horticulture is the fastest growing agricultural sub-sector in the country. In relation to this, write short notes on the constraints facing fruit and vegetable production in Kenya. (10 marks)

**QUESTION THREE (20 MARKS)**

- a) Discuss the direct effect of climate on animal production. (10 marks)
- b) Using relevant examples, discuss the challenges facing animal production in Kenya. (10 marks)

**QUESTION FOUR (20 MARKS)**

- a) Explain the effect of HIV/AIDS on agricultural production in East Africa. (10 marks)
- b) Write short notes on potential application of induced mutations in relation to improvement of wheat against stem rust in Kenya. (10 marks)

**QUESTION FIVE (20 MARKS)**

Discuss the characteristics of the agriculture sector in Kenya. (20 marks)

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