



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

**SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN AGROECOSYSTEM MANAGEMENT**

AEM 203: AGRO-ECOLOGY II

DATE: APRIL 7, 2017

TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE

- a) Explain the term ecological resilience: (2 marks)
- b) Describe forms of agricultural production that lead to trace gas emissions (4 marks)
- c) Explain how soil moisture and water saturation influence soil organic matter (6 marks)
- d) Explain the concept of capital according to Bourdieu (4 marks)
- e) Explain key principles for sustainability in agriculture (4 marks)
- f) Explain mechanisms by which sustainable agroecosystems maintain immunity (4 marks)
- g) Describe the functions of humus in the soil (6 marks)

QUESTION TWO

- a) Discuss factors limiting Agricultural productivity in Kenya (10 marks)
 - b) Discuss the strategies to overcome the limitations (10 marks)
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QUESTION THREE

- a) Describe strategies used in managing microclimates (10 marks)
- b) Explain factors that affect micro-climate (10 marks)

QUESTION FOUR

- a) Discuss impacts of global food system on global environment (15 marks)
- b) Analyze efforts made towards fighting plastic menace in Kenya (5 marks)

QUESTION FIVE

- a) Describe the sustainable development goals. (5 marks)
- b) Discuss the three pillars of sustainable development goals (15 marks)

END