

UNIVERSITY OF EMBU 2021/2022 ACADEMIC YEAR

FIRST SEMESTER EXAMINATIONS FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURAL RESOURCE MANAGEMENT

ART 601: AGRICULTURAL PRODUCTION SYSTEMS

DATE: DECEMBER 12,

TIME:2:00PM-5:00PM

INSTRUCTIONS:

Answer ANY FOUR Questions

QUESTION ONE (25 MARKS)

- a) Discuss the reasons why mono cropping in coffee is being avoided in recent years. (15 marks)
- b) Elaborate on the alternative coffee production systems that are being advanced and explain why they are superior to mono-crop coffee plantations. (10 marks)

QUESTION TWO (25 MARKS)

- a) Explain the global importance of integrated crop livestock production systems as driver of sustainability.
 (15 marks)
- b) With reference to specific crops and livestock explain the coupling effect of this mixed production system. (10 marks)





QUESTION THREE (25 MARKS)

- a) Discuss the history of intensive livestock production in the last 100 years. (11 marks)
- b) Explain how modern poultry production methods have addressed the following issues;

i) Confinement vs non-confinement

(7 marks)

ii) Animal welfare and housing requirements

(7 marks)

QUESTION FOUR (25 MARKS)

a) Discuss five indicators of agricultural productivity and efficiency.

(15 marks)

b) Explain how the indicators of productivity and efficiency can practically be measured

in the field

(10 marks)

QUESTION FIVE (25 MARKS)

- a) Discuss Agro-forestry policies in Kenya with reference to different geographical areas of the Country. (15 marks)
- b) Outline the possible initiative and opportunity that can lead to improvement in the agroforestry production system. (10 marks)



