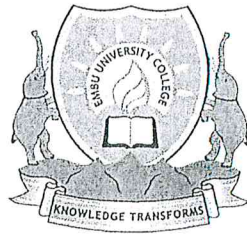


Correction of question 3 (25 marks) (15)



# EMBU UNIVERSITY COLLEGE

(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

EXAMINATION 2013/2014

FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTERS OF

SCIENCE IN AGRICULTURAL RESOURCE MANAGEMENT

ART601 AGRICULTURAL PRODUCTION SYSTEMS

DATE: DECEMBER 2, 2013

TIME: 2.00 – 5.00 PM

INSTRUCTIONS

Answer ANY FOUR questions

QUESTION 1

- a) Discuss various methods of increasing productivity of a pastoral farming system. (10marks)
- b) Discuss various ways in which Biological factors affect Agricultural production system.  
(15marks)

QUESTION 2

- a) An investor wants to construct a tea factory to serve the out growers in Embu county. Explain the undertakings that are necessary for him/her to succeed. (12marks)
- b) Tropical countries have more solar energy that is convertible to Biomass than temperate regions. Discuss. (13marks)

QUESTION 3

Discuss various methods of harvesting rain water. (15marks)

**QUESTION 4**

- a) Discuss how animal and plants balance can be used to increase productivity of a farming system. (15marks)
- b) If you are practicing artificial insemination and you import semen of different cattle breeds. Describe how to use Polymerase chain reaction (PCR) method to ensure the semen are as diverse as required. (10marks)

**QUESTION 5**

Discuss the importance of various sources of energy in a farm. (25marks)

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