



MACHAKOS UNIVERSITY

University Examinations for 2017/2018 Academic Year

SCHOOL OF AGRICULTURAL SCIENCE

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

FIRST YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF
AGRICULTURAL EDUCATION AND EXTENSION

AEE 111: FUNDAMENTALS OF AGRICULTURAL EDUCATION AND EXTENSION

DATE: 5/12/2017

TIME: 11.00-1.00 PM

Instructions:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a)
 - i) Differentiate between Agricultural Education and Agricultural Extension. (4 marks)
 - ii) What do you understand by Rural Development? (2 marks)
 - iii) Describe the major goals of the Kenya 4-K Clubs. (4 marks)
- b)
 - i) Explain six (6) implications of Smith-Hughes Act on vocational Agriculture. (6 marks)
 - ii) Differentiate between Informal and Non formal types of education as concepts in Agricultural Education. (4 marks)
- c)
 - i) Explain four (4) reasons why an extension officer would **NOT** choose to use the Radio as a communication device while passing important agricultural practices to his/her farmers? (4 marks)
 - ii) What are the basic essential elements that are necessary for a communication process to be complete? (6 marks)

QUESTION TWO (20 MARKS)

- a) Discuss John Dewey's Philosophy of Education. (4 marks)
- b) Explain four (4) philosophical systems that have contributed in influencing learners in different institutions of learning. (10 marks)
- c) Describe six (6) characteristics of Formal Education. (6 marks)

QUESTION THREE (20 MARKS)

- a) List four (4) of the Sustainable Development Goals. (4 marks)
- b) Agricultural extension is believed to have brought a lot of development in the rural areas of Kenya. Clearly describe six (6) functions that agricultural extension has performed to achieve this. (6 marks)
- c) Adoption process is the mental process through which an individual passes from hearing about an innovation to its final adoption. Clearly describe the main stages that are encompassed in this process. (10 marks)

QUESTION FOUR (20 MARKS)

- a) The 8-4-4 system of education was introduced in Kenya in 1984 with one aim of widening the curriculum to prepare learners for formal and informal post-education employment opportunities. Clearly discuss why the intention has not been achieved in the country. (8 marks)
- b) It is believed that it is the receiver's perception of the attributes of innovations, which affect the rate of adoption of innovations. Clearly describe six (6) attributes of innovation that you know. (12 marks)

QUESTION FIVE (20 MARKS)

- a) An agricultural extension officer has, at his/her disposal, several extension teaching methods that can be used to pass important information to farmers. Clearly describe the main groups that these methods can be classified into. (6 marks)
- b) Extension Education in any society operates within a number of principles. One of them is the Principle of Cultural Difference. Discuss how this principle works to ensure success of extension education. (4 marks)

- c) With the help of a well- labelled diagram, describe the characteristics of the main categories of innovators found in a community that could affect adoption of new practices. (10 marks)