



# MACHAKOS UNIVERSITY

University Examinations for 2014-2019 Academic Years

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

**FIRST YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR SCIENCE IN  
AGRICULTURAL EDUCATION AND EXTENSION  
SUPPLEMENTARY/SPECIAL EXAM**

**KEE 301: EXTENSION EDUCATION AND PROGRAMME DEVELOPMENT**

**Date: Jan-Feb 2019**

**Time:**

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**Instructions**

**ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS.**

**SECTION A: ANSWER ALL QUESTIONS (30 MARKS)**

**Question One**

- Using an illustration, explain the FOUR roles of agricultural knowledge systems in the field of agricultural extension (**8 marks**)
- Good planning based on situation analysis depends on the availability of adequate and reliable data and scientific elaboration and interpretation of the same. Explain the criteria that should be met to ensure this step has been adequately followed(**4 marks**)
- Outline the three facets emphasized in the definition of Agricultural Extension service in Kenya (**3 marks**)

- d) Outline the six phases that are applied in extension programme planning for rural development in Kenya **(6 marks)**
- e) Explain how the following are influenced by effective agricultural education (9 marks)
  - i. Technology dissemination
  - ii. Behavior change
  - iii. Attitude change

**SECTION B: ANSWER ANY TWO QUESTION (40 MARKS)**

**QUESTION TWO**

- a) Discuss how Agricultural extension education programmes implemented by various development agencies have failed to contribute to increased agricultural production and Rural Development **(12 marks)**
- b) Suggest five four ways in which the causes to the failures could be addressed **(8 marks)**

**QUESTION THREE**

**Explain**

- a) The contribution of the philosophy of agricultural extension to effective behaviour change among rural farmer **(15 marks)**
- b) Explain FIVE principles of extension on which these philosophies are based **(5 Marks)**

**QUESTION FOUR**

Discuss the effect of adoption and innovation curve to the utilization of technology by farmers **(20 Marks)**

**QUESTION FIVE**

Discuss the how effective communication in agricultural extension may contribute to poverty alleviation among the rural people in Kenya. **(20 marks)**