



# MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

THIRD YEAR SPECIAL/ SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

KEE 301: EXTENSION EDUCATION AND PROGRAMME DEVELOPMENT

DATE: 22/01/2021

TIME: 2.00-4.00 PM

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## INSTRUCTIONS:

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

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

#### QUESTION ONE

- a) Explain the three facets emphasized in the definition of Agricultural Extension service in Kenya (3 marks)
- b) Explain the six phases that are applied in extension programme planning for rural development in Kenya (6 marks)
- c) 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)
- d) Explain the FOUR roles of agricultural knowledge systems in the field of agricultural extension (8 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**

Discuss how effective communication in agricultural extension may contribute to poverty alleviation among the rural people in Kenya

**QUESTION THREE**

Discuss the effect of adoption and innovation curve to the utilization of technology by farmers

**QUESTION FOUR**

- a) Explain 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 FIVE**

- 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) Explain five four ways in which the causes to the failures could be addressed (8 marks)