



# **MACHAKOS UNIVERSITY**

**University Examinations for 2019/2020 Academic Year**

**SCHOOL OF AGRICULTURAL SCIENCES**

**DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION**

**FOURTH YEAR FIRST SEMESTER EXAMINATION FOR**

**BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION**

**AEE 435: AGRICULTURAL EXTENSION AND RURAL DEVELOPMENT**

**DATE: 6/12/2019**

**TIME: 11.00-1.00 PM**

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## **INSTRUCTIONS:**

**Answer question ONE and any other TWO questions**

### **QUESTION ONE (30 MARKS) (COMPULSORY)**

- a). Define the following terms:
  - i) Agricultural extension (2 marks)
  - ii) Rural development (2 marks)
- b). Explain the rationale for agricultural extension to developing countries like Kenya(8 marks)
- c). Explain three challenges faced by extension agents and farmers in extension service provision (6 marks)
- d). Describe six components of communication process in extension service provision (12 marks)

### **QUESTION TWO (20 MARKS)**

- a). Explain the resultant effects of decentralization strategy for rural transformation (8 marks)
- b). Describe four weaknesses associated with the conservation theory (12 marks)

### **QUESTION THREE (20 MARKS)**

- a). Explain five measures that a country should put in place to achieve effective extension service provision programme (10 marks)
- b). Describe five general phases of a project (10 marks)

**QUESTION FOUR (20 MARKS)**

- a). Describe five adopter categories of a technology or innovation (10 marks)
- b). Explain 4 project evaluation approaches (10 marks)

**QUESTION FIVE (20 MARKS)**

- a). Describe five factors that affect effective extension services in developing countries like Kenya (10 marks)
- b). Explain the importance of agricultural finance credit in agriculture and rural development (10 marks)