



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

**FOURTH YEAR SECOND SEMESTER EXAMINATION FOR
BACHELOR OF SCIENCE IN AGRI-BUSINESS MANAGEMENT AND TRADE**

**FOURTH YEAR SECOND SEMESTER EXAMINATION FOR
BACHELOR OF SCIENCE IN EDUCATION AND EXTENSION**

AEE 435: AGRICULTURAL EXTENSION AND RURAL DEVELOPMENT

DATE: 9/5/2019

TIME: 8:30 – 10:30 AM

INSTRUCTIONS:

Answer question 1 (Compulsory) and any other two (2) questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Define the following terms
 - i) Agricultural extension
 - ii) Rural transformation. (4 marks)
- b) Differentiate between diffusion and adoption of a technology or an innovation. (4 marks)
- c) State six reasons that justify the deployment of agricultural extension services in a developing country like Kenya. (6 marks)
- d) Explain three challenges faced by extension agents and farmers in extension service provision in Kenya. (6 marks)
- e) Explain the six components of a communication process in extension service provision. (10 marks)

QUESTION TWO (20 MARKS)

- a) Describe the five adopter categories of a technology or innovation. (10 marks)
- b) Explain six stages of technology adoption process. (10 marks)

QUESTION THREE (20 MARKS)

- a) Describe the resultant effects of decentralization strategy for rural transformation. (10 marks)
- b) Describe five project evaluation approaches in Agricultural Extension Programmes. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Explain five factors that affect effective extension service delivery in developing countries like Kenya. (10 marks)
- b) Describe five general phases of a project cycle. (10 marks)

QUESTION FIVE (20 MARKS)

- a) Explain the measures that a country should put in place to achieve an effective extension service provision programme? (10 marks)
- b) Describe five processes involved in project planning and management. (10 marks)