



# MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCE  
DEPARTMENT OF AGRI-BUSINESS MANAGEMENT AL STUDIES

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR  
BACHELOR OF SCIENCE IN AGRI-BUSINESS MANAGEMENT

**KST 408: AGRICULTURAL EXTENSION AND RURAL DEVELOPMENT**

**DATE: 3/8/2017**

**TIME: 8:30 – 10:30 AM**

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## INSTRUCTIONS:

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

## SECTION A: (COMPULSORY)

### QUESTION ONE (30 MARKS)

a) Define the following terms:

- (i) Agricultural extension (2 marks)
- (ii) Agricultural Extension Service Delivery (2 marks)
- (iii) Rural transformation (2 marks)

b) (i) Differentiate between diffusion and adoption of a technology or an innovation (3 marks)

(ii) How does early majority differ from early adopters? (6 marks)

c) (i) What is the primary focus of agricultural extension? (2 marks)

(ii) Using examples, explain the rationale for agricultural extension to developing countries like Kenya? (4 marks)

d) (i) Explain three challenges faced by extension agents and farmers in extension service provision. (3 marks)

(ii) Outline Six key guiding questions in project monitoring and evaluation? (3 marks)

e) Explain why communication is an integral part of extension service provision. (3 marks)

**SECTION B: ANSWER ANY TWO (2) QUESTIONS FROM THIS SECTION (40 MARKS)**

**QUESTION TWO (20 MARKS)**

- a) Describe and illustrate the five adopter categories of a technology or innovation. (12 marks)
- b) Explain the six stages of technology or innovation adoption process. (8 marks)

**QUESTION THREE (20 MARKS)**

- a) Describe the resultant effects of decentralization strategy for rural transformation? (4 marks)
- b) Explain the conservation theory and state the weaknesses associated the theory. (8 marks)
- c) Describe 4 project evaluation approaches. (8 marks)

**QUESTION FOUR (20 MARKS)**

- a) Describe 5 factors that affect effective extension service delivery in developing countries like Kenya. (10 marks)
- b) Describe the five general phases of a project. (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) Outline and explain why each of the five processes involved in project planning and management are carried out. (10 marks)