



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRIBUSINESS MANAGEMENT AND TRADE

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION & EXTENSION

AEE 301: AGRICULTURAL EXTENSION AND TECHNOLOGY TRANSFER

DATE: 24/7/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS:

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

SECTION A:

QUESTION ONE (COMPULSORY)

- a) Define rural transformation and how it occurs (2 marks)
- b) Explain three challenges extension agents and farmers face in extension service provision (6 marks)
- c) Why are strong research-extension-farmer linkages necessary for a developing country like Kenya? (10 marks)
- d) Describe the six stages of technology or innovation adoption process (12 marks)

SECTION B: ANSWER ANY TWO QUESTIONS FROM THIS SECTION

QUESTION TWO

- a) Explain five factors that positively influence technology or innovation adoption (10 marks)
- b) Describe 5 factors that affect effective extension service delivery in developing countries like Kenya (10 marks)

QUESTION THREE

- a) Outline and explain 5 basic principles of agricultural extension work (10 marks)
- b) Explain 5 project evaluation approaches (10 marks)

QUESTION FOUR

- a) Describe five general phases of a project (10 marks)
- b) Explain why each of the five processes involved in project planning and management is carried out (10 marks)

QUESTION FIVE

- a) Describe the five adopter categories of a technology or innovation (10 marks)
- b) What measures should a country put in place to achieve an effective extension service provision programme? (10 marks)