



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

AEE 301: AGRICULTURAL EXTENSION AND TECHNOLOGY TRANSFER

DATE: 9/12/2019

TIME: 2.00-4.00 PM

INSTRUCTIONS:

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

QUESTION ONE (30 MARKS) (COMPULSORY)

- a) i) Differentiate between adoption and diffusion of a technology or an innovation (4 marks)
- b) ii) Define the term rural transformation (2 marks)
- c) Describe the drivers of rural transformation (6 marks)
- d) Explain four objectives of extension service provision (6 marks)
- e) Explain six basic principles of agricultural extension work (12 marks)

QUESTION TWO (20 MARKS)

- a) Explain challenges facing the use of ITC in extension service provision (8 marks)
- b) Explain four processes involved in project planning and management (12 marks)

QUESTION THREE (20 MARKS)

- a) Describe the six stages of technology or innovation adoption process (12 marks)
- b) Discuss four general phases of a project (8 marks)

QUESTION FOUR (20 MARKS)

- a) Explain the importance of strong research-extension-farmer linkages in Kenya (10 marks)
- b) Describe five project evaluation approaches (10 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss five essential phases involved in designing an effective extension programme (10 marks)
- b) Explain five guiding principles of extension programme work (10 marks)