

MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

THIRD YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE (AGRICULTURAL EDUCATION AND EXTENSION)

AEE 301: AGRICULTURAL EXTENSION AND TECHNOLOGY TRANSFER
DATE: 14/12/2021 TIME: 11:00 – 1:00 PM

INSTRUCTIONS: Answer Question One (Compulsory) in Section A and any Two

Questions in Section B

SECTION A: (COMPULSORY)

QUESTION ONE (30 MARKS)

a) Define the following terminologies

(i) Rural transformation (2 marks)

(ii) Technology (2 marks)

(iii) Innovation (2 marks)

b) Explain three challenges facing ICT in agricultural production and marketing (6 marks)

c) Explain the rationale for agricultural extension in Kenya (6 marks)

d) Describe three tasks in which mass media channels of communication are well suited in extension service delivery (6 marks)

e) Explain three challenges that farmers face in extension service provision. (6 marks)

SECTION B: ANSWER ANY TWO QUESTION (40 MARKS)

QUESTION TWO (20 MARKS)

- a) Explain the grassroots strategy for rural development in Kenya. (5 marks)
- b) Explain five reasons why strong research-extension-farmer linkages are necessary for a developing country like Kenya (5 marks)
- c) Describe the characteristics of the five adopter categories of a technology or innovation (10 marks)

QUESTION THREE (20 MARKS)

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

QUESTION FOUR (20 MARKS)

- a) Describe five general phases of a project (10 marks)
- b) Describe five phases involved in designing an effective extension programme. (10 marks)

QUESTION FIVE (20 MARKS)

- a) Explain five factors that affect effective extension service delivery in Kenya. (10 marks)
- b) Discuss five basic principles of agricultural extension work. (10 marks)