



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

AEE 332: PRINCIPLES OF AGRICULTURAL EXTENSION

DATE: 31/8/2022

TIME: 8.30-10.30 AM

INSTRUCTIONS:

Answer *ALL* questions from Section A and any other *TWO* from Section B:

SECTION A: COMPULSORY: (30 MARKS)

QUESTION ONE (COMPULSORY) (30 MARKS)

- Describe three factors used as indicators of development in agricultural extension. (3 marks)
- Explain Four degrees of evaluation based on nature of evaluation. (4 marks)
- Describe five stages of agricultural extension process. (5 marks)
- Explain any five questions answered by evaluating agricultural extension Programmes. (5 marks)
- Explain four techniques employed to collect data in rapid rural appraisal extension. Approach. (4 marks)
- Differentiate between formal and non-formal extension education. (4 marks)
- Explain five roles of a field agricultural extension worker. (5 marks)

SECTION B: (40 MARKS) :Answer any tow questions from this section

QUESTION TWO (20 MARKS)

- Explain four extension teaching methods that would be appropriate for training a group of farmers (4 marks)
- Explain Three roles of ICT in agricultural extension (6 marks)
- Discuss five agricultural extension methods that would be effective in training individual farmers (10 marks)

QUESTION THREE (20 MARKS)

Giving one example in each case, discuss ten challenges facing agricultural extension in Kenya under devolved county governments

QUESTION FOUR (20MARKS)

- a) Discuss the framework for planning agricultural extension campaigns. (10 marks)
- b) Analyze five objectives of evaluating agricultural extension Programmes. (10 marks)

QUESTION FIVE (20 MARKS)

- a) Explain the meaning of agricultural extension philosophy. (4 marks)
- b) Discuss two emerging issues in agricultural extension. (4 marks)
- c) Analyze six factors affecting privatization of agricultural extension services in Kenya. (12 marks)