



MACHAKOS UNIVERSITY

University Examinations for 2024/20245 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES

SECOND YEAR SEMESTER ONE EXAMINATION FOR
BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

AEE 332: PRINCIPLES OF AGRICULTURAL EXTENSION

DATE:

TIME:

INSTRUCTION: Answer question one and any other two

QUESTION ONE: COMPULSORY (30 MARKS)

- a) Describe four ways of how agricultural extension services can help improve farm management practices. (4marks)
- b) Explain four ways in which conducting a situational analysis can help to identify community-specific agricultural needs. (4 marks)
- c) Explain the importance of farmer participation in identifying their needs and how it impacts the success of agricultural extension programs. (5 marks)
- d) Identify five strategies to overcome common challenges in developing an agricultural extension program. (5 marks)
- e) Explain four advantages of using the rapid rural appraisal extension approach (4marks)

- f) Compare the goals and methods of formal and in-formal agricultural extension education. (4 marks)
- g) Describe four key responsibilities of a field agricultural extension worker in supporting sustainable agricultural practices. (4 marks)

QUESTION TWO (20 MARKS)

- a. Explain the importance of Swynnerton Plan in development of agricultural extension education in Kenya (10 marks)
- b. 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 Participatory Rural Appraisal approach in agricultural extension

QUESTION FOUR (20 MARKS)

Imagine you are invited by the area chief to speak at a community meeting (chief baraza) about the benefits of joining a farmer's cooperative society. Write a script for a role play where you persuade the farmers to join the cooperative

QUESTION FIVE (20 MARKS)

- a. Explain how a social media influencer can persuade farmers to adopt a new maize variety through the use of the demonstration method (10 marks)
- b. Analyze five factors affecting privatization of agricultural extension services in Kenya (10 marks)