



MACHAKOS UNIVERSITY

University Examinations for 2022/2023 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES

SECOND YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (AGRICULTURAL EDUCATION AND EXTENSION)

AEE 322: PRINCIPLES OF AGRICULTURAL EXTENSION

DATE:

TIME:

INSTRUCTIONS: Answer **Question ONE (Compulsory)** and Any other **Two** Questions.

QUESTION ONE: COMPULSORY (30 MARKS)

- a) Describe the aim of agricultural extension service delivery in Kenya. (3 marks)
- b) Explain four roles of Information Communication and Technology (ICT) in agricultural extension (4 marks)
- c) Explain the importance of gender mainstreaming in agricultural extension (4 marks)
- d) Giving one example in each case, describe three organizations that are involved in agricultural extension in Kenya. 6 marks
- e) Explain two types of indicators that are used to monitor agricultural extension programmes (4 marks)
- f) Explain five factors that influence privatization of agricultural extension services (5 marks)
- g) Describe four ways of improving lecture method effectiveness in training of farmers

QUESTION TWO (20 MARKS)

- a) Discuss why use of bottom-up approach in agricultural extension services delivery is considered more effective than top-down approach. (10 marks)
- b) Compare formal extension education with non-formal extension education. (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) Explain the two functions of agricultural extension in Kenya (2 marks)
- b) Discuss agricultural extension teaching methods under the following subheadings
 - i. Individual farmer methods (6 marks)
 - ii. Group methods (6 marks)
 - iii. Mass methods. (6 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss three emerging issues in Agricultural Extension (6 marks)
- b) Analyze seven Participatory Rural Appraisal (PRA) techniques used in agricultural extension to identifying community's resources (14 marks)