



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

SECOND YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (AGRICULTURAL EDUCATION AND EXTENSION)

AEE 221 PRINCIPLES OF TEACHING AND LEARNING AGRICULTURE

DATE: 7/12/2021

TIME: 8.30-10.30 AM

INSTRUCTIONS:

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

SECTION A: COMPULSORY: (30 MARKS)

QUESTION ONE (30 MARKS)

- a) i) Explain any **three** purposes of School Agriculture (3 marks)
- ii) Explain **three** alternatives to direct teacher learner interactions with students. (3 marks)
- b) i) In which **three** ways would a teacher be considered as practicing the image of effective of teaching? (3 marks)
- ii) Give **three** requirements for acceptable school agriculture project. (3 marks)
- c) i) Explain any three approaches to inquiry-based learning (3 marks)
- ii) In which **three** ways would evaluation and assessment benefit a student? (3 marks)
- d) i) Explain any **three** desirable qualities of a teacher of agriculture. (3 marks)
- ii) Explain any **three** approaches which an agricultural extension officer may adopt to meet the farmers need in extension teaching. (3 marks)
- e) i) Give any **three** reasons why the school farm is considered as a laboratory (3 marks)
- ii) Explain any **three** ways in which success in a task by a student promotes learning. (3 marks)

SECTION B 40 MARKS

Answer Any Two Questions 40 MKS

QUESTION TWO (20 MARKS)

- a) Explain any **five** guiding principles of teaching and learning in agriculture. (10 marks)
- b) Outline the guideline for developing tests for a class. (10 marks)

QUESTION THREE (20 MARKS)

- a) Outline the procedure of planning and establishing a teaching farm in the school. (10 marks)
- b) Explain any **five** strategies for implementing experience-based learning in agriculture. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Explain a principle with reference to the teaching of agriculture. (10 marks)
- b) Explain any **five** reasons for the teaching of agriculture in secondary schools in Kenya. (10 marks)

QUESTION FIVE (20 MARKS)

- a) Explain any **five** strategies which an agricultural extension officer would adopt to meet the farmers interest for effective learning in agricultural extension. (10 marks)
- b) Outline key questions which a teacher would ask after presenting a lesson in self-evaluation. (10 marks)