



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION SOL

KCU 201: PRINCIPLES OF CROP PRODUCTION

DATE: 23/9/2019

TIME: 2.00-4.00 PM

INSTRUCTIONS:

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

SECTION A: COMPULSORY: (30 MARKS)

QUESTION ONE

- a) Explain two method of zoning (4 marks)
- b) Explain four economic importance of weeds in crop production (4 marks)
- c) Explain four reasons why you would advise a farmer to use compound fertilizers compared to straight fertilizers (4 marks)
- d) Describe three characteristics of Carbamide fertilizer that makes farmers prefer in utilizing than Chilean Nitrate (3 marks)
- e) Explain six reasons why farmers carry out seed bed preparation (6 marks)
- f) Explain any four factors that affect planting density in crop production (4 marks)
- g) Explain two special classification of crops useful to a farmer specializing in legume production (2 marks)
- h) Describe disease triangle concept useful in management of disease (3 marks)

SECTION B: Answer any TWO Questions (40 Marks)

QUESTION TWO

- a) Explain six ecological factors that affect crop production in Kenya (12 marks)
- b) Explain four ways in which Kenyan farmers can adopt in order to enhance production in drylands of Kenya (8 marks)

QUESTION THREE

- a) Explain five methods of fertilizer application in crops that farmers can use (10 marks)
- b) Explain five methods farmers can apply in an effort to control soil erosion in their farms (10 marks)

QUESTION FOUR

- a) Describe six methods a farmer can successfully employ to manage pests and diseases in crops (12 marks)
- b) Explain four ways farmers can adopt to manage post-harvest losses in Kenya (8 marks)

QUESTION FIVE

- a) Describe three types of organic fertilizers you can advise farmers to adopt as an extension officer in Kisii county (12 marks)
- b) Explain four methods of planting farmers can adopt in Nakuru regions (8 marks)