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University Examinations 2012/2013

YEAR ONE, SEMESTER ONE EXAMINATIONS FOR CERTIFICATE/DIPLOMA IN
AGRICULTURE

AGR 0120: PRINCIPLES OF CROP PRODUCTION

DATE: APRIL 2013

TIME: 1½HOURS

INSTRUCTIONS: Answer questions *one* and any other *two* questions

QUESTION ONE – (30 MARKS)

- Crop production at present and in future will have to be more knowledge and technological based than it has been. Explain. (6 Marks)
- Discuss the factors that influence crop production in Kenya. (6 Marks)
- Distinguish between agroecological zone and agroclimatic zones. (4 Marks)
- What do you understand by the term farm system? (4 Marks)
- What are the key considerations to make during fertilizer application? (5 Marks)
- Is it necessary to have a fine tilth during land preparations for all crops? (5 Marks)

QUESTION TWO – 15 MARKS

Describe the procedure you would use to introduce a new crop in a given region. (15 Marks)

QUESTION THREE – 15 MARKS

Discuss the following farming systems that are common in sub-saharan Africa. (15 Marks)

- Root crop farming system
- Irrigated farming system
- Highland temperature mixed farming system

QUESTION FOUR – 15 MARKS

Outline the crop production practices you would recommend to farmers in Kenya to ensure the country attains food security. (15 Marks)

QUESTION FIVE – 15 MARKS

Discuss the challenges that face crop production in arid and semi-arid parts of Kenya. (15 Marks)

