

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DIPLOMA IN AGRICULTURE AND
RESOURCE DEVELOPMENT**

AGRI 0102: PRINCIPLES OF CROP PRODUCTION

STREAMS:

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 11/12/2019

8.30 A.M – 10.30 A.M

INSTRUCTIONS

Answer all questions in section A and any two questions in section B

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

1. (a) Explain any four roles of agriculture in the Kenyan economy. [8 marks]
- (b) Explain the following terms as commonly used in crop production;
 - (i) Crop [1 mark]
 - (ii) Crop ecology [2 marks]
 - (iii) Soil cap [1 mark]
 - (iv) 1pm [2 mark]

QUESTION TWO

- (a) Explaining with relevant examples, describe various classification of plants. [8 marks]

- (b) Outline the advantages of using seeds as a method of plant propagation. [4 marks]

QUESTION THREE

- (a) Briefly explain the phenomenon of autoperiodism. [6 marks]
- (b) Define a soil hardpan and explain its causes. [4 marks]

- (c) Outline the various methods used in primary tillage. [4 marks]

SECTION B: ANSWER ANY TWO QUESTIONS

QUESTION FOUR

- (a) Explain the benefits of crop rotation in crop production. [10 marks]
(b) Briefly outline any four reasons of land preparation before planting. [5 marks]

QUESTION FIVE

- (a) Discuss any five (5) methods of controlling pests and diseases in a farm. [5 marks]
(b) Explain the classification of herbicides by activity. [5 marks]

QUESTION SIX

- (a) Discuss the factors that influence the choice of plant spacing. [10 marks]
(b) Discuss the advantages of mulching in crop production. [5 marks]
-