

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE, BACHELOR OF SCIENCE IN AGRICULTURE EDUCATION AND BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS

AGRI 351: ANNUAL CROPS

STREAMS: BSC AGRI, BSC AGED & BSC AGECE

TIME: 2 HOURS

DAY/DATE: TUESDAY 04/12/2018

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- **This paper has two sections A and B**
- **Section A accounts for 30 marks while section B accounts for 40 marks**
- **Section A is compulsory**
- **Answer any two questions in section B**

SECTION A (30 MARKS): ANSWER ALL QUESTIONS

1. Differentiate the following:
 - (a) Intensive farming (6 marks)
 - (b) Extensive farming (6 marks)
2. Explain why timely planting is critical (4 marks)
3. Explain vernalization in wheat production. (4 marks)
4. (a) Explain why late planting leads to low yields. (6 marks)
(b) Differentiate between primary cultivation and secondary cultivation. (4 marks)

SECTION B

5. (a) Discuss maize lethal necrosis disease under the following subheadings:

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- (a) Cause of the disease (2 marks)
 - (b) Symptoms (2 marks)
 - (c) Control options (6 marks)
- (b) Describe three possible maize harvesting stages. (6 marks)
6. (a) Discuss the steps involved in sunflower oil processing. (15 marks)
- (b) Describe the factors affecting bean production in Kenya. (5 marks)
7. (a) Discuss cotton production under the following subheadings:
- (i) Temperature requirements (4 marks)
 - (ii) Ratooning of cotton (5 marks)
 - (iii) Maintenance (3 marks)
- (b) Explain chitting and pre-sprouting of potato tubers. (8 marks)
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