



*"Investing in Africa's Future"*

DEPARTMENT OF AGRICULTURE AND NATURAL SCIENCE

ACP 307: FIELD CROP PRODUCTION

END OF FIRST SEMESTER EXAMINATIONS

November/December 2019

LECTURER: MTAITA TA

DURATION: 3 HOURS

### **INSTRUCTIONS**

1. Write your Registration Number[**NOT YOUR NAME**] on the answer sheet

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2. Use Answer Sheets Provided To Answer **Four** Questions Only

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3. Begin your answer for Each Question on a New Page

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4. Credit is Given for Neat Presentation

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## **NACP 307: FIELD CROP PRODUCTION**

### **ANSWER *FOUR* QUESTIONS**

#### **Question One**

- a) How will the knowledge of components of a legume help in understanding the yield potential of a leguminous crop? **[5]**
- b) You are asked to open a commercial farm in a given locality in the country of your own choice for growing field crops. Discuss in depth the criteria to be considered in selecting the field crop for the farm. **[20]**

#### **Question Two**

- a) Write briefly on the status of sweet production in your country and its future **[8]**
- b) What is your view that cassava is an important relief crop? **[8]**
- c) Discuss the role of grain legumes in a rural area of your own choice. **[9]**

#### **Question Three**

- a) Why are the millets considered to be the most versatile of the cereal crops with respect to their adaptation to the environments of varying ecological conditions? **[10]**
- b) Discuss in depth the growth phases of a wheat plant [or any other cereal crop] and indicate the importance of the knowledge of these growth phases in cereal management. **[15]**

#### **Question Four**

Discuss in detail the major challenges militating an increase in the production of field crops in a vast continent like Africa and suggest practical solutions to the constraints **[25]**



### **Question Five**

- a) Discuss the key considerations for successful wheat production. **[5]**
- b) If you were advising a potato or banana farmer to use improved planting material, what aspects of the husbandry of the crop would you recommend and why? **[20]**

### **Question six**

- a) Write about solid seeding in soybean with emphasis on advantages and disadvantages of the technology **[15]**
- b) If you are advising a maize farmer to use improved maize seed, what aspects of the husbandry of the crop would you recommend and why? **[10]**

### **Question 7.**

- a) What is the reason for a longer turn round time in sugarcane production? **[1]**
- b) Discuss four factors which are usually considered when determining cane quality **[8]**
- c) Discuss eight factors affecting cane quality **[16]**