

# **University Examinations 2010/2011**

# SECOND/FIRST YEAR, SECOND/FIRST SEMESTER EXAMINATIONS FOR DIPLOMA IN AGRICULTURAL EDUCATION AND EXTENSION/ CERTIFICATE IN AGRICULTURE

### AGR 0220/0122: ANNUAL CROPS

DATE: DECEMBER 2010

TIME: 1<sup>1</sup>/<sub>2</sub> HOURS

INSTRUCTIONS: Answer Question one which is Compulsory and any other two questions

### **QUESTION ONE - (30 MARKS)**

<ul><li>(a) Give detailed account of how manures or fertilizers are applied in maize cr</li><li>(b) Seed pre-treatment is undertaken in rice seeds awaiting planting. Give a detailed account of how manures or fertilizers are applied in maize cr</li></ul>	• • •	
	(8 Marks)	
(c) Bean fly is one of the most problematic bean pests.		
(i) State any four symptoms of bean fly	(3 Marks)	
(ii) State any three ways of controlling it.	(3 Marks)	
(d) (i) What is chitting?	(2 Marks)	
(ii) State any three, chemicals which can be used to enhance chitting.	(3 Marks)	
(iii) Give a detailed account of how you can prolong the storage life of ware potatoes.		
	(3 Marks)	
(e) Name the two types of cassava.	(2 Marks)	

#### **QUESTION TWO – (15 MARKS)**

(a) What are the characteristics used for differentiating various sweet potato varieties.

	(10 Marks)
(b) What are the two planting materials used in establishing sweet potatoes.	(2 Marks)
(c) Ridge planting is the most common method of establishing sweet potatoes.	Give three
advantages for using it.	(3 Marks)

### **QUESTION THREE – (15 MARKS)**

Give any three methods of controlling each of the following plant pests.

(i) Anthracnose in beans (3 Marks)

(ii)	Bacterial wilt in Potatoes	(3 Marks)
(iii)	Maize stalk borers.	(3 Marks)
(iv)	Potato moth	(3 Marks)
(v)	Stem rot in rice.	(3 Marks)

# **QUESTION FOUR – (15 MARKS)**

Give a detailed account of potato production under the following sub-headings.

(i)	Planting materials	(3 Marks)
(ii)	Fertilizer application	(3 Marks)
(iii)	Weeding	(2 Marks)
(iv)	Grading	(2 Marks)
(v)	Storage of planting seed tubers	(3 Marks)
(vi)	Name any three potato varieties grown in water stressed areas.	(2 Marks)

# **QUESTION FIVE – (15 MARKS)**

(a) Give the five agro-ecological requirements of cassava.	(5 Marks)
(b) Explain the three conditions which help the farmer to determine the right time to plant cassav	
	(6 Marks)
(c) Briefly discuss fertilizer application in cassava.	(4 Marks)