**AGED 315** 





# **UNIVERSITY EXAMINATIONS**

# 1<sup>ST</sup> SEMESTER 2023/2024 ACADEMIC YEAR

# THIRD YEAR EXAMINATIONS FOR BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION AND EDUCATION

AGED 315: ANNUAL CROPS

STREAM: R

TIME: 2 HRS

DAY: WEDNESDAY (8.30-10.30AM) DATE: 13/12/23

THIS QUESTION PAPER CONSISTS OF THREE (3 PAGES) PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

 Vision: A University for Valued Transformation of Society
 Page 1 of 4

 Mission: To serve students and society through research, education, scholarship, training, innovation, outreach and consultancy



Laikipia University is ISO 9001:2015 and ISO/IEC 27001:2013 Certified

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# **INSTRUCTIONS:** Answer question **ONE** and any other **TWO** questions.

# **QUESTION ONE (30 MARKS)**

a)	Explain FIVE importance of earthing up as done in Irish potatoes	(5 marks)	
b)	Rice is affected by two severe diseases namely; bacterial blight and rice blast. Describe		
	FIVE harmful effects to the plant	(5 marks)	
c)	Explain FIVE roles of temperature and day length in common bean growth	(5 marks)	
d)	Discuss FIVE roles of temperature on the growth of sunflower	(5 marks)	
e)	Explain the meaning of upland rice technology	(2 marks)	
	ii) State Three characteristics of the upland rice technology system	(3 marks)	
f)	Consumption of some sorghum species by livestock can interfere with respiration. Explain		
	five reasons why this phenomenon happens.	(5 marks)	

#### **QUESTION TWO (20 MARKS)**

a) I) Describe the process of sugar formation in sugar beet	(7 marks)		
ii) State three factors that affect the process	(3 marks)		
b) Discuss the following requirements in sugar beet production:			
i) Environmental conditions	(4 marks)		
ii) Cultivation	(3 marks)		
iii) Harvesting	(3 marks)		

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# **QUESTION THREE (20 MARKS)**

a)	) Discuss the cultivation of rice with emphasis on ;				
	i)	Sowing methods	(5 marks)		
	II) Soil conditions		(5 marks)		
b)	Descri	be the environmental conditions and harvesting of rice	(10 marks)		

# **QUESTION FOUR (20 MARKS)**

a)	a) Discuss the uses of the sunflower crop				
b)	b) Explain the following with regard to sunflower				
	ii)	Favourable environmental conditions	(4 marks)		
	iii)	Cultivation	(4 marks)		
	iv)	Harvesting	(2 marks)		

# **QUESTION FIVE (20 MARKS)**

a)Discuss in detail 5 benefits of growing peas		
b) Describe the botanical characteristics of the pea crop	(10 marks)	



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