

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES DEPARTMENT OF AGRICULTURAL SCIENCES THIRD YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE AGRICULTURAL EDUCATION AND EXTENSION BACHELOR OF EDUCATION (SCIENCE) BACHELOR OF EDUCATION (SPECIAL NEEDS) HOR 441: VEGETABLE PRODUCTION

DATE:	TIME:
-------	-------

INSTRUCTIONS: Answer **Question ONE** (Compulsory) and Any other Two Questions.

QUESTION ONE (COMPULSORY) (30 MARKS)

a)	Distinguish between hot beds and cold frames	(2 marks)
b)	Explain four ways of maintaining quality of vegetables during storage	(4 marks)
c)	Explain FOUR methods of direct sowing of vegetables	(4 marks)
d)	Explain four anti-nutritional factors in vegetables	(4 marks)
e)	Describe FOUR physiological changes that occur in a seedling during hardening off	
		(4 marks)
f)	Describe four classifications of cabbage varieties based on shape of the head.	(4 marks)
g)	Explain four agronomic advantages of growing African indigenous vegetables	(4 marks)
h)	Describe four characteristics of detroit dark red variety of beetroot	(4 marks)

Examination Irregularity is punishable by expulsion

QUESTION TWO (20 MARKS)

a)	Describe the ecological requirements in production of onion	(10 marks)			
b)	Discuss five management practices in control of <i>Tuta absoluta</i> in tomatoes	(10 marks)			
QUESTION THREE (20 MARKS)					

a)	Discuss five production challenges facing potato farmers in Kenya	(10 marks)
b)	Describe the establishment of swiss chards in the nursery bed.	(10 marks)

QUESTION FOUR (20 MARKS)

a) b)	Explain the fertigation regime in greenhouse pepper production Describe the ecological requirements in production of frenchbean	(10 marks) (10 marks)		
QUESTION FIVE (20 MARKS)				
a)	Explain five ways in which beetroots can be utilised	(10 marks)		

/	1	5					(
b)	Describe	the characteri	stics of four	varieties of	f kales in F	Kenya	(10 marks)