## **HORT 421**

CHUKA



UNIVERSITY

#### UNIVERSITY EXAMINATIONS

### FOURTHYEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE (HORTICULTURE)

#### HORT 421: HORTICULTURAL SEED PRODUCTION

STREAMS: BSC (HORT) Y4S1

**TIME: 2 HOURS** 

2.30 P.M. - 4.30 P.M.

DAY/DATE:	WEDNESDAY 06/12/2017
INSTRUCT	IONS:

## SECTION A – ANSWER ALL QUESTIONS (30 MARKS)

1.	(a)	Explain how isolation in seed crops and supplementary pollination should be		
		carried out.	[4 marks]	
	(b)	Explain how seed that do not dehisce at maturity can be harvested	l. [4 marks]	
2.	(a)	Describe how natural crossing can lead to varietal deterioration and factors that		
		lead to its occurrence.	[5 marks]	
	(b)	Describe tomato seed extraction using the fermentation method.	[5 marks]	
3.	Descr	scribe the roguing procedure in brinjal seed production. [6 marks]		
4.	Descr	Describe the general flowering process in curcubits. [6 marks]		
SECTION B – ANSWER ANY 2 QUESITONS (40 MARKS)				
5.	(a)	a) Describe the harvesting and threshing procedures in cabbage seed production.		
			[5 marks]	
	(b)	Describe roguing process and justify the activity in seed crop process.[7 marks]		
	(c)	Explain steps that seed producers are required to use to unsure genetic purity is		
		maintained during seed production.	[8 marks]	
6.	(a)	(a) Discuss recalcitrant and orthodox seeds and effects on seed longevity.[10 n		
(b) Describe seed source control for maintain genetic purity and the d			ifferent classes	

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- 7. (a) Describe the procedure for pumpkin seeds drying after extractions. [5 marks]
  - (b) Discuss conditioned seed storage under controlled humidity and temperature.

[15 marks]

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