

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 - Meru-Kenya.

Tel: 020-2069349, 061-2309217. 064-30320 Cell phone: +254 712524293, +254 789151411

Fax: 064-30321

Website: www.must.ac.ke Email: info@must.ac.ke

University Examinations 2013/2014

THIRD YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF

BACHELOR OF SCIENCE IN HORTICULTURE

AHS 2310 – FLORICULTURE 11

DATE: DECEMBER 2013

TIME: 2HOURS

INSTRUCTIONS: Answer question **one** and any other **two** questions

QUESTION ONE – 30 MARKS

(a) (i) What is a cut-flower?	(2Marks)	
(ii) Bud-harvesting is the most common harvesting technique used by many farms.	Explain any	
three reasons as to why this method is the most popular.	(3Marks)	
(b) A given commercial flower farm wants to recruit you as a farm supervisor. Explain	n the various	
cultural methods you wish to be employed by workers at harvesting stage in order t	o improve the	
quality and vase-life of the harvested cut flower for fresh market use.	(5Marks)	
(c) Explain how the following causes of deterioration of cut-flowers can be controlled.		
(i) Food depletion	(3Marks)	

- (ii) Ethylene gas(3Marks)(d) (i) What is a biocide as used in cut-flower production?(1Mark)
 - (iii) Name any two types of biocides commonly used in most cut-flower farms. (2Marks)
- (e) Briefly explain the procedure for post-harvest handling of fresh cut-flowers (8Marks)
- (f) Statice is one of the common fresh flowers produced for export market in Kenya. Explain its procedure of fertilizer application. (3Marks)

QUESTION TWO – 20 MARKS

(a) Most of the cut flowers require well drained soils (media). Explain how you can improve soil drainage in the cut-flower beds.
(5Marks)

((i)	Botanical Name	(2Marks)	
((ii)	Family Name	(1Mark)	
(c) How does the following environmental factors affect gladiolus plants in the farm.				
((i)	Photoperiod	(2Marks)	
((ii)	Temperature	(3Marks)	
((iii)	Water	(2Marks)	
(d) Explain the harvesting procedure and storage of corms in gladiolus. (5Marks)				

QUESTION THREE – 20 MARKS

(a)	Explain	xplain the various methods used for sterilizing soils in the green-house before planting the	
	flowers	8.	(5Marks)
(b)	Gypson	phila is one of the most popular cut-flower in the world.	
	(i)	Give its family name	(1Mark)
	(ii)	State any two used of it	(2Marks)
	(iii)	Explain how the various environmental factors affect gypsophila production	.(12Marks)

QUESTION FOUR – 20 MARKS

(a) Differentiate disbudding from pinching as practiced in cut-flower production.				
(b) Name any three commonly used propagating media.				
(c) State any four purposes of using rooting media				
(d) Lisianthus of one of cut-flower most loved by customers.				
(i) Give its scientific name	(2Marks)			
(ii) Briefly explain its two growth phases.	(6Marks)			
(iii) Explain how the temperature and light intensity affects its performance	e. (3Marks)			

QUESTION FIVE – 20 MARKS

(a) An investor wants to venture into fresh cut-flower production. Give professional advice in the		
choice of cut-flower production site he needs to choose.	(5Marks)	
(b) Give two differences which can be used to differentiate Asiatic and oriental hybrids of lily.		
	(4Marks)	
(c) Explain the procedure of treatment of lily bulbs before planting.	(1Mark)	
(d) Explain how the following environmental conditions affects lily production during the growth		
period:		
(i) Temperature	(2Marks)	
(ii) Light intensity	(2Marks)	
(e) (i) Name any two diseases which attack lilies.	(2Marks)	
(ii)State one confirmatory sign of each disease.	(2Marks)	
(ii)State one method of controlling each disease.	(2Marks)	