

## EMBU UNIVERSITY COLLEGE (A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

#### TRIMESTER EXAMINATIONS 2013/2014

# SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN HORTICULTURE

#### **ACH 201: NURSERY MANAGEMENT**

3 9

TIME: 11.00AM - 1.00PM

## **INSTRUCTIONS:**

**DATE: AUGUST 12, 2014** 

Answer Question ONE and ANY Other TWO Questions.

#### **QUESTION ONE**

a) Define the following terms as used in the nursery or in a greenhouse:

	i)	Forcing	(2 marks)
	ii)	Pad Cooling	(2 marks)
	iii)	Root zone heating	(2 marks)
	iv)	Seed Dormancy	(2 marks)
	v)	Fertigation	(2 marks)
b)	Discuss th	e similarities and differences between cold frames and hot frames	(4 marks)
c)	Explain the importance of soil drainage in the nursery. (1 mark)		
d)	Explain why the weight of a potting media is of concern in containerized plants.		

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(2 marks)

usion in a potting media.  (3 marks)  (4 marks)  (2marks)  ing media (7 marks)  (3 marks)			
(4 marks) (2marks)  ng media (7 marks)			
(2marks) ng media (7 marks)			
ng media (7 marks)			
(3 marks)			
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(10 marks)			
gate tomato seedlings for a			
e applicable in such a			
(4 marks)			
Describe the two (2) methods you would consider for testing the seed viability (8 marks)			
al porosity, aeration porosity			
ulas where necessary.			
(8 marks)			
QUESTION FOUR			
(8 marks)			
(6 marks)			
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i) Symptoms

ii) Causal agents

iii) Predisposing factors

c) Outline (6) advantages of budding as compared to grafting

(6 marks)

## **QUESTION FIVE**

a) Give two (2) characteristics of the following substrates:

(10 marks)

- i) Sand
- ii) Peat
- iii) Coir
- iv) Lignite
- v) Expanded clays

b) Discuss with illustrations the following types of grafting

(10 marks)

- i) Whip and Tongue
- ii) Wedge Grafting
- iii) Splice Grafting
- iv) Side Veneer Grafting
- v) Saddle Graft