

1ST SEM 2011/12

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION

PROGRAMME:

BACHELOR OF SCIENCE IN ABE, AEM AND

AGRIC. EDUCATION YEAR III

COURSE CODE:

HORT 306

TITLE OF PAPER:

VEGETABLE AND FRUIT CROP PRODUCTION

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

ANSWER ANY FOUR (4) QUESTIONS

DO NOT OPEN UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

PAGE 2 OF 3

[25 marks]

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

QUESTION 1

a) Soil type, drainage, water requirements b) Propagation c) Spacing (2 mark QUESTION 2 Provide harvesting guidelines for the following vegetable crops: a) Snap beans b) Broccoli c) Brussels sprouts d) Cauliflower e) Sweet corn f) Eggplant g) Okra h) Leaf lettuce i) Watermelon (10 mark (125 mark) (12 mark) (2 mark) (2 mark) (3 mark) (4 mark) (2 mark) (2 mark) (2 mark) (3 mark) (4 mark) (2 mark) (4 mark) (10 mark) (2 mark) (2 mark) (3 mark) (4 mark) (10 mark) (2 mark) (2 mark) (3 mark) (4 mark) (10 mark) (10 mark) (2 mark) (2 mark) (3 mark) (4 mark) (10 mark) (10 mark) (10 mark) (2 mark) (2 mark) (3 mark) (4 mark) (10 mark) (11 mark) (12 mark) (12 mark) (13 mark) (14 mark) (15 mark) (16 mark) (17 mark) (18 mark) (short notes on the production culture of the Cape Goosebe the following headings:	erry (<i>Physalis peruviana</i>
c) Spacing (2 mark QUESTION 2 Provide harvesting guidelines for the following vegetable crops: a) Snap beans (2 mark b) Broccoli (2 mark c) Brussels sprouts (3 mark d) Cauliflower (3 mark e) Sweet corn (4 mark f) Eggplant (3 mark g) Okra (2 mark h) Leaf lettuce (2 mark i) Watermelon (4 mark [25 mark [25 mark]			(10 marks)
Provide harvesting guidelines for the following vegetable crops: a) Snap beans (2 mark b) Broccoli (2 mark c) Brussels sprouts (3 mark d) Cauliflower (9 Sweet corn (1 mark f) Eggplant (2 mark f) Eggplant (3 mark f) Leaf lettuce (2 mark f) Leaf lettuce (2 mark f) Watermelon (4 mark f) Watermelon (5 mark f) Watermelon (6 mark f) Watermelon (7 mark f) Watermelon (8 mark f) Watermelon (9 mark f) Watermelon	b)	Propagation	(13 marks)
Provide harvesting guidelines for the following vegetable crops: a) Snap beans (2 mark b) Broccoli (2 mark c) Brussels sprouts (3 mark d) Cauliflower (3 mark e) Sweet corn (4 mark f) Eggplant (3 mark g) Okra (2 mark h) Leaf lettuce (2 mark i) Watermelon (4 mark [25 mark [25 mark]	c)	Spacing	(2 marks)
Provide harvesting guidelines for the following vegetable crops: a) Snap beans (2 mark b) Broccoli (2 mark c) Brussels sprouts (3 mark d) Cauliflower (9 Sweet corn (1 mark f) Eggplant (2 mark f) Eggplant (3 mark g) Okra (2 mark f) Leaf lettuce (2 mark f) Watermelon (4 mark f) Watermelon (5 mark f) Watermelon (6 mark f) Watermelon (7 mark f) Watermelon (8 mark f) Watermelon		••	[25 marks]
a) Snap beans b) Broccoli c) Brussels sprouts d) Cauliflower e) Sweet corn f) Eggplant g) Okra h) Leaf lettuce i) Watermelon (2 mark 2 mark (3 mark (4 mark (2 mark (2 mark (2 mark (2 mark (2 mark (2 mark (3 mark (2 mark (3 mark (2 mark (3 mark (2 mark (2 mark (3 mark (3 mark (4 mark (3 mark (4 mark (5 mark (6 mark (7 mark (7 mark (7 mark (8 mark (8 mark (9		QUESTION 2	
b) Broccoli c) Brussels sprouts d) Cauliflower e) Sweet corn f) Eggplant g) Okra h) Leaf lettuce i) Watermelon (2 mark (3 mark (4 mark (2 mark (3 mark (2 mark (3 mark (3 mark (4 mark (2 mark (4 mark (2 mark (4 mark (4 mark	Provid	e harvesting guidelines for the following vegetable crops:	:
c) Brussels sprouts d) Cauliflower e) Sweet corn f) Eggplant g) Okra h) Leaf lettuce i) Watermelon (3 mark (3 mark (4 mark (2 mark (2 mark (2 mark (2 mark (2 mark (2 mark (3 mark (3 mark (3 mark (4 mark (2 mark (4 mark (4 mark (2 mark (4 mark (4 mark (4 mark) (5 mark (6 mark (6 mark (6 mark (6 mark (7 mark (7 mark (8 mark (8 mark (9	a)	Snap beans	(2 marks)
d) Cauliflower e) Sweet corn f) Eggplant g) Okra (2 mark h) Leaf lettuce i) Watermelon (3 mark (2 mark (2 mark (2 mark (2 mark (2 mark (2 mark (3 mark (2 mark (3 mark (3 mark (2 mark (2 mark (3 mark (2 mark (3 mark	b)	Broccoli	(2 marks)
e) Sweet corn f) Eggplant g) Okra (2 mark h) Leaf lettuce (2 mark i) Watermelon (4 mark (2 mark (2 mark (2 mark (2 mark (3 mark (2 mark (2 mark (3 mark (2 mark (2 mark (3 mark (2 mark (3 mark (2 mark (3 mark (2 mark (3 mark (3 mark (2 mark (3 mark (3 mark (3 mark (2 mark (3 mar	c)	Brussels sprouts	(3 marks)
f) Eggplant (3 mark g) Okra (2 mark h) Leaf lettuce (2 mark i) Watermelon (4 mark [25 mark	d)	Cauliflower	(3 marks)
g) Okra (2 mark h) Leaf lettuce (2 mark i) Watermelon (4 mark [25 mark	e) '	Sweet corn	(4 marks)
h) Leaf lettuce (2 mark i) Watermelon (4 mark [25 mark	f)	Eggplant	(3 marks)
i) Watermelon (4 mark [25 mark	g)	Okra	· (2 marks)
[25 mar	h)	Leaf lettuce	(2 marks)
	i)	Watermelon	(4 marks)
	-		[25 marks]
QUESTION 3		QUESTION 3	

Write briefly on the following vegetable crop management practices:	
a) Thinning of carrots (Daucus carota)	(12 marks)
b) Staking of tomato (Lycopersicon esculentum)	(13 marks)

PAGE 3 OF 3

QUESTION 4

Provide the production guidelines for banana (Musa spp) cultivation under the following:

a) Climate and soils

(12 marks)

b) Spacing

(9 marks)

c) Pruning, propping and desuckering

(4 marks) [25 marks]

QUESTION 5

a) What are the primary and secondary objectives of orchard floor management

(5 marks)

b) Describe four (4) advantages and four (4) disadvantages of the following methods of orchard floor management:

Cultivation i)

(8 marks)

ii) Mowing (8 marks)

(8 marks)

iii) Mulching

[25 marks]