2910/301 CROP ENTERPRISE MANAGEMENT HI Oct/Nov. 2022 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN SUSTAINABLE AGRICULTURE AND RURAL DEVELOPMENT

MODULE III

CROP ENTERPRISE MANAGEMENT III

3 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of EIGHT questions.

Answer any FIVE questions in the answer booklet provided.

All questions carry equal marks.

Maximum marks for each part of a question are indicated.

Candidates should answer the questions in English.

This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

• 1.	(a)	Outline the practice of wedge grafting in avocados when provided with appr scion, rootstock and tools.	opriate (8 marks)
	(b)	Describe the establishment of a nursery bed for cabbages in the highlands.	(12 marks)
e 2.	(a)	Citing the commercial objective of each, explain the following post-harvest in fruits:	practices
		(ii) degreening; (ii) waxing.	(10 marks)
	(b)	Describe the planting of French beans intended for export.	(10 marks)
3.	(a)	Describe each of the following practices in the establishment of mango rootstock:	
		(i) seed selection; (ii) seed preparation.	(10 marks)
	(b)	Describe the pruning practices in banana production.	(10 marks)
4.	(a)	Explain five advantages of hydroponics in vegetable production.	(10 marks)
	(b)	Explain five ways of controlling ethylene damage in horticultural produce.	(10 marks)
75.	(a)	Describe traceability in horticulture with respect to:	
		(i) meaning; (ii) importance.	(4 marks)
	(b)	Highlight four desirable characteristics of neem for use as a pesticide.	(4 marks)
	(c)	The state of the s	(12 marks)
6,	(a)		nation. (4 marks)
	(b)) Explain disbudding in carnation under the following:	
		(i) meaning;	
		(ii) objective; (iii) procedure.	(8 marks
	(c) Describe land preparation in rose flower production.	(8 marks

(a) Explain the reason why avocados will ripen if picked unripe unlike citrus fruits. (4 marks)

(b) Outline the propagation of Aloe vera using a leaf. (8 marks)

(c) Describe the harvesting of African nightshade for use as a vegetable. (8 marks)

8. (a) Describe fruit thinning in apple production.

(4 marks)

Describe blanching of celery in the field under the following:

- (i) objective;
- (ii) method.

(8 marks)

Explain two negative effects of applying fresh manure in onion production. (c)

(4 marks)

(d) State four symptoms of powdery mildew in capsicum production.

(4 marks)

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