Excluding examiner comments





R2114

UNDERSTANDING PROTECTED ENVIRONMENTS & THEIR USE IN PLANT CULTIVATION

Level 2

Tuesday 6 February 2024

15:20 - 16:10

Written Examination

Candidate Number:	
Candidate Name:	
Centre Name:	

IMPORTANT – Please read carefully before commencing:

- i) The duration of this paper is **50** minutes;
- ii) **ALL** questions should be attempted;
- iii) **EACH** question carries **10 marks**;
- iv) Write your answers legibly in the spaces provided. It is **NOT** necessary that all lined space is used in answering the questions:
- v) Use **METRIC** measurements only;
- vi) Use black or blue ink only. Pencil can be used for drawing purposes only. Ensure that all diagrams are labelled accurately with the line touching the named object;
- vii) Where plant names are required, they should include genus, species and where appropriate, cultivar;
- viii) Where a question requires a specific number of answers; only the first answers given that meet the question requirement will be accepted, regardless of the number of answers offered;
- ix) Please note, when the word 'distinct' is used within a question, it means that the items have different characteristics or features.

Ofqual Unit Code L/601/0267

Please turn over/.....

ANSWER ALL QUESTIONS

MARKS

Q1 Describe **ONE** distinct protected structure for **EACH** of the following uses by completing the table below.

Horticultural use	Description of protected structure	
Plant propagation		2
Growing fruits		
		2
Displaying tender		
perennials		
		2
`		
Hardening off plants		
3 • • • • • • • • • • • • • • • • • • •		2
		_
Growing salad crops		2
		Total Mark
		I Otal Ivial K

Please see over/.....

		MARKS
Q2	Describe EACH of the following methods of irrigation stating ONE benefit and ONE limitation for EACH .	E
	i) capillary ii) hose pipe	5 5
	i)	
	ii\	
	ii)	
		Total Mark
		11

Please turn over/.....

Describe how a grower can maximise natural light in a protected structure under EACH of the following headings:	
i) site selection ii) selection of protected structure iii) growing within the structure	
i)	
ii)	
iii)	
	To

Please see over/.....

	i)	propagation	
	ií)	propagation establishment	
i)			
ii)			
")			

Please turn over/.....

Q5 a)	State TWO reasons for providing ventilation in a glasshouse.	MARKS 2
b)	Describe how EACH of the following methods of ventilation work in a glasshouse.	4
	i) natural ventilationii) forced draught or fan ventilation	4
	i)	
	ii)	
		Total Mark

Please see over/.....

Q6 a)	State FOUR factors to consider when selecting a suitable growing media for houseplants.	MARKS 4
b)	Describe THREE maintenance tasks carried out on the houseplant <i>ficus benjamina</i> .	6
		Total Mark

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