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RHS Level 3 Certificate in Plant Growth, Garden Planning and Applied Propagation

UNIT 1

Wednesday 25th June 2025

09:30 - 11:30

Can	didate Name:
Cano	didate Number:
Cent	re Name:
	Instructions
This pa	per contains three sections which may be answered in any order. Candidates should answer:
• • • Place a	Section A – all questions (20 marks) Section B – all questions (50 marks) Section C – only TWO from FOUR questions (30 marks). a cross (X) in the box identifying the two Section C questions you have answered.
	C1 C2 C3 C4
	Please note:
i)	The duration of this paper is 120 minutes.
ii)	Write all answers legibly in the spaces provided and use black or blue ink only.
iii)	Use METRIC measurements only.
iv)	Where plant names are required, they should include genus, species and where appropriate, cultivar.
v)	Where a question requires a specific number of answers, only the first answers given will be marked regardless of the number of answers offered.

Please note, when the word 'distinct' is used within a question, it means that the items have different

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RHS Level 3 Certificate in Plant Growth, Garden Planning and Applied Propagation - UNIT 1 Candidate Name: Centre Name: Candidate Number: **SECTION A RESPONSE GRID** Instructions Place a cross (X) in the box you believe is the correct answer. If you make a mistake, score through the box and place a cross in the correct box as follows: Question Answer 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

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Section A

Answer all questions in this section.

This section is worth 20 marks and each question is worth 1 mark.

Question 1

This specialist propagation technique involves selecting one plant of optimum quality and type. All stock plants are then propagated from this one plant.

What is this specialist propagation technique called?

- a) Twin scaling
- b) Clonal selection
- c) Treated seed
- d) Cutting selection

Question 2

The incidence of pests and diseases in propagation units is managed through a process known as Integrated Pest Management. This process involves a number of steps including:

- 1. Biological control
- 2. Prevention
- 3. Chemical control
- 4. Physical/Mechanical

In which order are these applied?

- a) 2, 4, 1, 3
- b) 2, 1, 4, 3
- c) 3, 4, 2, 1
- d) 4, 1, 3, 2

Question 3

A plant supplier has included a section on ecosystem services on their website.

Ecosystem services include:

- a) Supporting and Native
- b) Organic and Biodiversity
- c) Distribution and Abundance
- d) Provision and Regulating

Question 4



The image above shows plants being propagated in a specialist facility.

What propagation technique is being used at this facility?

- a) Micropropagation
- b) Twin scaling
- c) Micro greens propagation
- d) Nutrient film technique

Question 5

Horticulturists are increasingly selecting plants that are climate resilient.

This includes:

- a) selecting plants that sequester carbon
- b) selecting plants that reduce flooding
- c) selecting plants that tolerate high wind speeds
- d) selecting plants that have low carbon footprints

Question 6

You have recently taken over as the supervisor of a plant propagation unit.

You have spotted the following issues.

Which one would be your priority to resolve?

- a) The fuse box for the soil warming table is hot to touch
- b) Some fire extinguishers are out of date
- c) Staff training and personnel records need updating
- d) Some of the paths in the unit have become uneven

Question 7

A plant supplier has described some of their stock as being available as "feathered maidens".

These are:

- a) One year old trees with one single stem
- b) One year old trees with one single stem and side shoots
- c) Three-year-old trees with one single stem
- d) Three-year-old trees with one single stem and branches

Question 8

Α	garder	ı desiane	er is talkir	na throual	h their des	ign proposal.

They explain, "the design of the garden is in _____ with surrounding buildings, I have repeated colours, materials and form, put simply it feels as if they belong together".

Which of the following words completes the sentence above?

- a) opposition
- b) contrast
- c) harmony
- d) proportion

Question 9

Good garden managers work hard to create cultures where people feel welcome and valued for who they are.

Is this?

- a) Inclusion
- b) Discrimination
- c) Diversity
- d) Equality

Question 10

Which statement best explains the impact of Persian gardens on the development of horticultural spaces in the UK?

Persian gardens influenced UK gardens through:

- a) the use of porticos and columns, with classical sculptures creating focal points through the garden
- b) the construction of perimeter walls, and being organised symmetrically, along a central axis
- c) developing gardens as places for the dramatic display of wealth, success and power
- d) introducing the concept of outdoor rooms, vibrant colour palettes and temples

Question 11

The image below shows The RHS Colour Chart.



What is the primary purpose of the RHS Colour Chart?

- a) To measure the impact of diseases on flower colour
- b) To measure the stage of ripeness of top fruit
- c) To record and share heritage colours accurately
- d) To record and communicate colours accurately

Question 12

Plant labels are vital to the curation of the garden's collections.

Not only are they a convenient way of providing information, they also link the particular plant to its record, stored on the garden's plant database.

Cambridge University Botanic Garden



The information indicated by the yellow arrow on the plant label shown above is the:

- a) Propagule number
- b) Batch number
- c) Accession number
- d) Provenance number

Question 13

Which of the following would be the most useful tool when evaluating the heritage of a garden?

- a) Visitor related spend
- b) Community engagement
- c) Interpretation initiatives
- d) Presence of artifacts

Question 14

The International Union for the Conservation of Nature (IUCN) website states:

The IUCN Red List Categories and Criteria are intended to be an easily and widely understood system for classifying species at high risk of global extinction. It divides species into nine categories:

Which category is missing from the list below?

Not Evaluated
Data Deficient
Least Concern
Near Threatened
Endangered
Critically Endangered
Extinct in the Wild
Extinct

- a) Vulnerable
- b) Exposed
- c) Frequent
- d) Dominant

Question 15

The English Landscape Garden tradition:

- a) rejected authoritarian formality in favour of rural simplicity
- b) celebrated technical innovation and the concept of empire
- c) captured the spirit of the age and technological advancement
- d) dismissed the concepts of elegant vistas and natural treescapes.

Question 16

The Health and Safety Executive website states:

This legislation sets out the general duties which:

- employers have towards employees and members of the public
- employees have to themselves and to each other
- certain self-employed have towards themselves and others

The legislation being described is the:

- a) Management of Health and Safety Regulations 1999
- b) Manual Handling Operations Regulations 1992 (as amended)
- c) Health and Safety at Work Act 1974
- d) Control of Substances Hazardous to Health Regulations 2002

Question 17

Which of the following statements most accurately explains the advantage of wild collected plant material.

- a) Wild collection of plant material has historically increased income to first peoples, to fund projects to enhance biodiversity and protect wildlife.
- b) Wild collected plant material has low genetic diversity, so populations founded from it are more uniform and can be sustainably managed.
- c) Wild collected plant material is important for the conservation of threatened species and can provide material for ecological restoration.
- d) Wild collected plant material is guaranteed to be free from synthetic pesticides, to benefit biodiversity in areas where these plants are cultivated.

Question 18

A public garden has published a sustainability strategy.

They have committed to understanding how their gift shop supply chain functions on a global scale. Key questions include: is child labour involved in manufacturing products? Are people being paid fairly? Is the environment people are working in safe?

Which of the pillars of sustainability does this commitment relate to?

- a) The environmental pillar
- b) The social pillar
- c) The economic pillar
- d) All of the above

Question 19

On a recent Equality and Diversity training session the following statement was made, "good garden managers acknowledge and value all the visible and non-visible differences of the people that make up staff and volunteers. This includes practices, activities, understanding and backgrounds".

This statement is an example of:

- a) Diversity
- b) Marketing
- c) Discrimination
- d) Equality

Question 20

How often should a volunteer in a garden inspect their Personal Protective Equipment to ensure it is in good condition and functioning as designed?

- a) Once a month
- b) Once a week
- c) Before use
- d) When directed

End of section A.
Please continue to Section B.

Section B

Answer all questions in this section.
This section is worth 50 marks.

Question 1 (6 marks)	MARKS
This question relates to the application of Health and Safety knowledge to the planning of plant maintenance.	
You have been asked to produce a risk assessment for the maintenance of a range of plants.	
a) Name ONE maintenance task	
	1
b) State TWO hazards associated with the task	
	2
c) State TWO risks associated with the task	
	2
d) What action is required to control EACH risk?	
	2
	Total Mark

Que	estion 2 (7 marks)	
This	s question relates to the development of propagation protocols.	
a)	Name a plant that requires scarification to enable germination	
b)	Develop a propagation protocol for the plant named in a) using the following headings:	
i) ii) iii)	Growing media specification Hygiene considerations Water management	2 2 2

Total Mark

Question 3 (8 marks)	MARKS	
This question relates to horticultural heritage.	ritage.	
Explain FOUR influences on the development of Renaissance gardens.	8	

Total Mark

	MARKS
Question 4 (4 marks)	
This question relates to managing plants in botanic and other gardens.	
Define the term 'Living Collection'.	
	1
	•
State THREE purposes that Living Collections fulfil in botanical gardens.	3
	J

Total Mark

	MARKS
Question 5 (5 marks)	
This question relates to both Equality and Diversity and the importance of horticultural heritage.	
State FIVE ways that our knowledge of Equality and Diversity has impacted on the interpretation of heritage plant collections.	5

Candidate name Candidate number Centre name

Total Mark

Question 6 (6 marks)	MARKS
This question relates to planning plant propagation.	
Annual propagation plans are used to manage space utilisation and output of propagules.	
Explain THREE components of an annual propagation plan:	6

Total Mark

Question 7 (6 marks)	MARKS
This question relates to sustainability and horticultural heritage.	6
Discuss ONE impact of a changing climate on the management of heritage gardens.	
	Total Mark

Question 8 (8 marks)	MARKS
This question relates to plant procurement.	8
How do British Standards impact on the specification and planting of plant material?	

Total Mark

End of section B.

Please continue to Section C.

Section C

There are FOUR questions in this Section. You must only answer TWO questions.
Please write your answers on the following pages.
Each question is worth 15 marks. This section is worth 30 marks.
NOTE:
You MUST indicate which question you are answering by placing a cross in the appropriate box on the FRONT of this exam paper.
please turn over

Candidate number

Centre name

Candidate name

Question C1

This question relates to the impact of horticultural heritage on garden management.

How should the core principles of conservation theory be applied to the management of horticultural heritage?

15 marks

Total Mark

Question C2	
This question relates to applied plant knowledge.	
Discuss how biodiversity ratings are used in horticulture.	
15 marks	
	Total Mar

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Question C3

This question relates to plant selection and cultivation.

Discuss, with reference to named gardens, how heritage can impact on planting design.

15 marks

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Candidate number

Centre name

Question C4

This question relates to managing plant propagation.

Discuss the implications of applying sustainability principles to the management of a plant propagation unit.

15 marks

Total Mar

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