

City & Guilds Level 2 Technical Certificate in Horticulture (0174-20)

Sample External Test

Duration: 1 hour 30 minutes

SAMPLE


Number	Test Spec Ref	Question	Key
1	202.1.1 AO1	<p>What is the job role of a person working at a commercial bedding nursery who has the following duties?</p> <ul style="list-style-type: none"> • Organising staff. • Planning plant production. • Setting quality standards. • Ensuring safe working environment. • 	a
		<ul style="list-style-type: none"> a. Manager. b. Landscaper. c. Operative. d. Gardener. 	
Number	Test Spec Ref	Question	Key
2	202.1.2 AO2	<p>How do industry organisations, such as the British Association of Landscape Industries (BALI), work with the Government?</p>	d
		<ul style="list-style-type: none"> a. They help to collect taxes from members. b. They help to promote career opportunities. c. They keep a record of members' names for employment purposes. d. They raise awareness about industry issues. 	
Number	Test Spec Ref	Question	Key
3	202.1.2.AO2	<p>Jack has recently started his own nursery growing bedding plants and selling them to the public.</p> <p>Which organisation should Jack join in order to get access to a range of business support and development initiatives?</p>	b
		<ul style="list-style-type: none"> a. Institute of Groundsmanship (IoG). b. Horticultural Trade Association (HTA). c. Chartered Institute of Horticulture (CioH). d. Association of Professional Landscapers (APL). 	
Number	Test Spec Ref	Question	Key
4	202.2.1 AO1	<p>If an employee works more than 6-hours a day, what is the minimum rest break that they are entitled to?</p>	b
		<ul style="list-style-type: none"> a. 15 minutes. b. 20 minutes. c. 30 minutes. d. 60 minutes. 	
Number	Test Spec Ref	Question	Key
5	202.2.1 AO2	<p>Which of the following people is entitled to the highest rate of the Minimum Wage and National Living Wage?</p>	a
		<ul style="list-style-type: none"> a. A 28 year old seasonal worker in a plant nursery. b. A 17 year old apprentice landscaper. c. A self-employed gardener. 	

Number	Test Spec Ref	Question	Key
		d. A volunteer in a public park.	
6	202.2.2 AO1	What is a responsibility of an employee? a. To set quality standards. b. To take rest breaks. c. To organise rotas. d. To be punctual.	d
7	203.1.1 AO1	Which of the following best describes a plant hybrid? a. A variation within species that originates in the wild. b. A cross between plants of different genera or species. c. A grouping together of several related genera. d. A variety produced by selective breeding.	b
8	203.1.1 AO2	Why is it useful to understand the relationship between plants in the same family? a. Plants in the same family have similar names. b. Plants in the same family can always be hybridised. c. Plants in the same family come from the same country. d. Plants in the same family often get affected by similar diseases.	d
9	203.1.2 AO2	Why is it important to use botanical names for plants? a. To register them with the Royal Horticultural Society. b. To determine the best soil type for their growth. c. To enter them into competitions easily. d. To identify them worldwide.	d
10	203.1.3 AO1	Which of the following describes a plant with a fastigate habit? a. The flowers are in a straight line. b. The seed is sown on its side. c. It has narrow upright growth. d. It spreads outwards from the roots.	c
11	203.1.3 AO2	Why is it useful for horticulturists to understand the meaning of botanical names when identifying plants? a. Botanical names are used on plant labels in botanic gardens. b. Botanical names are usually more complicated than common names.	d

Number	Test Spec Ref	Question	Key
		<p>c. Botanical names are only given to one type of plant world-wide.</p> <p>d. Botanical names sometimes describe plant features.</p>	
12	203.1.4 AO2	<p>If a plant is growing outside within the RHS zone H3, which of the following categories does it fit into?</p> <p>a. Frost tender.</p> <p>b. Fully hardy.</p> <p>c. Half hardy.</p> <p>d. Tender perennial.</p>	c
13	203.2.2 AO2	<p>How does a container-grown plant differ from a containerized plant?</p> <p>a. It has not been recently transplanted.</p> <p>b. It has a bigger root system.</p> <p>c. It is slower growing.</p> <p>d. It does not grow as big.</p>	a
14	203.2.2 AO2	<p>Street trees growing in cities need to be able to tolerate which of the following?</p> <p>a. Shortened growing seasons.</p> <p>b. Poor drainage and high pH soils.</p> <p>c. Shade and temperature extremes.</p> <p>d. Salt and pollution.</p>	d
15	203.3.1 AO1	<p>Which organ has the main role in transporting food and water in plants?</p> <p>a. Root.</p> <p>b. Stem.</p> <p>c. Leaf.</p> <p>d. Flower.</p>	b
16	203.3.1 AO2	<p>Why do plants need transpiration?</p> <p>a. To produce glucose.</p> <p>b. To control temperature.</p> <p>c. To take in nutrients.</p> <p>d. To breathe in oxygen.</p>	b
17	203.3.1 AO2	<p>What characteristic of grass roots makes them effective at stabilising sandy soils?</p>	d

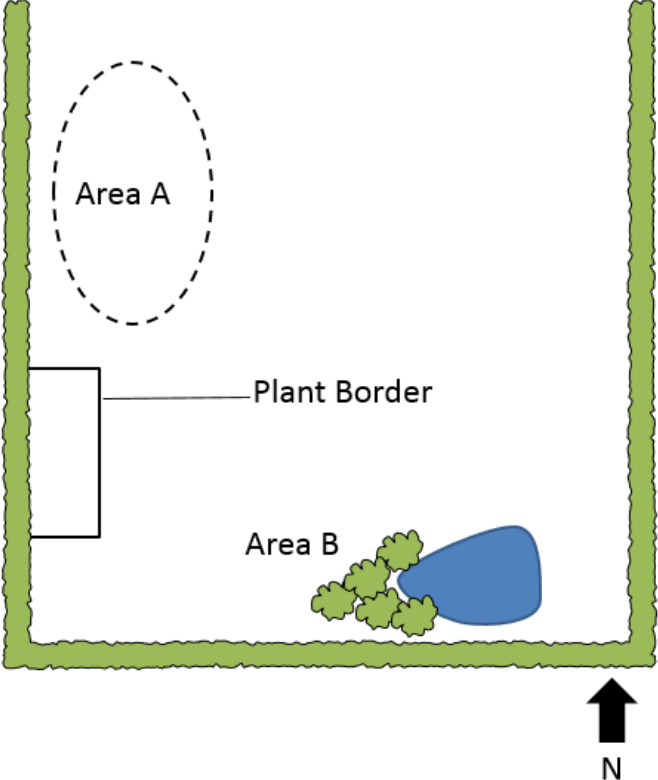
		<ul style="list-style-type: none"> a. They have tuberous roots. b. They have tap roots. c. They are shallow rooted. d. They have fibrous roots. 	
Number	Test Spec Ref	Question	Key
18	203.3.1 AO2	<p>Statement 1 Bees transfer pollen grains from one flower to another as part of the process called respiration.</p> <p>Statement 2 When pollen reaches the stigma of a flower, a tube is formed to allow pollen to travel to the ovary and join with an ovule to form a seed.</p> <p>Which one of the following is correct for the above statements?</p>	c
		<p>Statement 1 Statement 2</p> <ul style="list-style-type: none"> a. True True b. True False c. False True d. False False 	
Number	Test Spec Ref	Question	Key
19	203.3.1 AO2	<p>Why is it important for a plant to have enough light and carbon dioxide?</p>	a
		<ul style="list-style-type: none"> a. To be able to carry out photosynthesis. b. To be able to absorb water. c. To be able to produce flowers. d. To be able to reproduce. 	
Number	Test Spec Ref	Question	Key
20	203.3.2 AO1	<p>What category of plants has a lifecycle of more than one year?</p>	c
		<ul style="list-style-type: none"> a. Annual. b. Biennial. c. Perennial. d. Ephemeral. 	
Number	Test Spec Ref	Question	Key
21	203.3.2 AO2	<p>If the only weeds in a flower bed were ephemeral weeds, how often would it be necessary to weed the bed to control them?</p>	a
		<ul style="list-style-type: none"> a. Multiple times during the growing season. b. Once at the beginning of the growing season. c. Once during the growing season. d. Two times only during the growing season. 	
Number	Test Spec Ref	Question	Key

22	204.1.1 AO1	Which soil horizon is closest to the surface? a. O – Organic layer. b. A – Topsoil. c. B – Subsoil. d. C – Parent material.	c																									
Number	Test Spec Ref	Question	Key																									
23	204.1.1 AO2	Why is peat considered a good growing media for plants? a. It is sterile. b. It is easy to extract. c. It is not a carrier of disease. d. It is a sustainable resource.	a																									
Number	Test Spec Ref	Question	Key																									
24	204.1.2 AO1	What is the optimal pH range for growing most plants? a. 4.5 - 6.0. b. 5.5 - 7.0. c. 6.5 - 8.0. d. 7.5 - 9.0.	b																									
Number	Test Spec Ref	Question	Key																									
25	204.1.2 AO2	In an ideal soil, approximately what percentage of its volume contains each of the following? <ul style="list-style-type: none"> • Mineral matter. • Air. • Water. • Organic matter. <table border="1"> <thead> <tr> <th></th> <th>Mineral matter</th> <th>Air</th> <th>Water</th> <th>Organic matter</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>70%</td> <td>2%</td> <td>8%</td> <td>20%</td> </tr> <tr> <td>b.</td> <td>45%</td> <td>25%</td> <td>25%</td> <td>5%</td> </tr> <tr> <td>c.</td> <td>20%</td> <td>30%</td> <td>30%</td> <td>20%</td> </tr> <tr> <td>d.</td> <td>30%</td> <td>10%</td> <td>30%</td> <td>30%</td> </tr> </tbody> </table>		Mineral matter	Air	Water	Organic matter	a.	70%	2%	8%	20%	b.	45%	25%	25%	5%	c.	20%	30%	30%	20%	d.	30%	10%	30%	30%	b
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26	204.1.3 AO1	Which of the following describes the texture of a sandy loam when tested by hand? a. Coarse, smooth and crumbly. b. Gritty, abrasive and light. c. Smooth, sticky and heavy. d. Soapy, silky and polished.	b																									
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27	204.1.3 AO1	What category of soil organisms work with plant roots to fix nitrogen in the soil?	d																									

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		<ul style="list-style-type: none"> a. Invertebrates. b. Vertebrates. c. Fungi. d. Bacteria. 	
28	204.1.3. AO2	<p>Why is sand added to clay soils?</p> <ul style="list-style-type: none"> a. The large particles open up the structure of the soil. b. The large particles hold on to the nutrients in the soil. c. The rough texture prevents pests from eating roots. d. The rough texture attracts minerals to root hairs. 	a
29	204.1.3. AO2	<p>Plants described as prostrate in their name can often be used to fulfil which function in a garden?</p> <ul style="list-style-type: none"> a. Shelter. b. Noise abatement. c. Suppression of weeds. d. Creation of a desire line. 	d
30	204.5.3 AO1	<p>What is the weed in the picture?</p>  <ul style="list-style-type: none"> a. <i>Ranunculus</i> spp. (Buttercup). b. <i>Taraxcum officinale</i> (Dandelion). c. <i>Bellis perennis</i> (Daisy). d. <i>Trifolium</i> spp. (Clover). 	c
31	204.5.3 AO1	<p>Leatherjackets are the larval stage of which insect?</p> <ul style="list-style-type: none"> a. Solitary bees. b. Earth worms. c. Chafer beetles. d. Crane flies. 	d
32	204.5.3 AO2	<p>Which common lawn disease can be prevented by improving the drainage in the soil, adding nitrogen to the lawn and using a scarifier to remove thatch?</p>	b

Number	Test Spec Ref	Question	Key
		<ul style="list-style-type: none"> a. Red thread. b. Fusarium. c. Fairy ring. d. Brown patch. 	
33	204.5.3 AO2	<p>Rabbits can cause damage to lawns. Why do they do this?</p> <ul style="list-style-type: none"> a. To feed on chafer grubs. b. To mark their territory. c. To create dens for shelter. d. To find space for reproduction. 	c
34	205.4.1 AO1	<p>How can moisture condensation in a fuel tank of a lawn mower be avoided over the winter months?</p> <ul style="list-style-type: none"> a. Close the filler cap tightly. b. Fully empty the fuel tank. c. Store the mower on its side. d. Store the mower in a warm area. 	b
35	205.4.1 AO1	<p>What is the workshop tool in the image?</p>  <p>Image source: http://alloy-artifacts.org/Photos/tools/wright_12dr_s166_socket_early_f_cropped_inset.jpg</p> <ul style="list-style-type: none"> a. Wrench. b. Torque wrench. c. Spanner. d. Socket. 	a
36	205.4.2 AO1	<p>Which task should be completed first before carrying out maintenance activities on a brushcutter?</p> <ul style="list-style-type: none"> a. Shut off the engine. b. Put down the tarpaulin. c. Fill in a risk assessment. d. Take out the spark plug. 	c

Number	Test Spec Ref	Question	Key
37	205.4.3 AO1	What should be recorded on a rotary mower maintenance plan?	d
		<ul style="list-style-type: none"> a. Service label, company procedure and storage requirements. b. Operative's name, revs per minute and spare parts. c. Risks, manufacturer's details and insurance. d. Date, task and frequency. 	
38	206 1.1 AO2	Why are businesses required to keep risk assessment records?	c
		<ul style="list-style-type: none"> a. To prove they are familiar with all their procedures. b. To provide an additional record of the work they carried out. c. Inspectors have a legal right to inspect such records. d. It is a condition of their no-claims bonus insurance. 	
39	206.1.1 AO2	Ian has recently opened a plant nursery and has not included an invoice number on the invoices that he issues to customers.	b
		<p>Why can this cause problems for Ian in the future?</p> <ul style="list-style-type: none"> a. Customer payments may be late. b. Customer payments could get mixed up. c. Customers will not know where to send the payment. d. Customers will not know what goods they are paying for. 	
40	206.1.2 AO2	Dana is a landscaper. Why is it important that Dana tells customers how long quotes are valid for in her quotation document?	a
		<ul style="list-style-type: none"> a. To avoid possible issues with price rises. b. To remember when to order materials for the job. c. To prevent potential clients asking for a lower price. d. To give potential clients plenty of time to consider the price. 	
Number	Test Spec Ref	Question	Key

41-43	203 204 AO4	<p>Emma is a landscape gardener and has been asked by her client to look at the growing conditions in their garden and suggest suitable plants.</p> <ul style="list-style-type: none"> • The garden has a steep slope. • It is highest at its north end and lowest at the south end. • The wind mostly comes from the south west and there is a natural pond at the bottom of the slope with shrubs nearby. • The garden also has a 2 metre high evergreen hedge around it. • The soil feels sticky and is wet and heavy. <p>The client wants the bed as maintenance free as possible and privacy from neighbours.</p> 	
Number	Test Spec Ref	Question	Key
41		<p>Area A of the garden needs to be planted with plants that provide:</p> <ul style="list-style-type: none"> • food and habitat for wildlife • shelter from the wind • complete screening from neighbours for privacy. 	c

		Which of the following categories of plants will best meet these requirements?																
		<ul style="list-style-type: none"> a. Non-native, coniferous, forestry trees. b. Ornamental grasses. c. Large, native, evergreen shrubs. d. Deciduous trees. 																
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42		The shrubs in Area B of the garden would need to be tolerant of which of the following conditions?	b															
		<ul style="list-style-type: none"> a. Low nutrient soil, exposure and full sun. b. Frost, full shade and poor drainage. c. Dry soil, shade and exposure. d. Shelter, full sun and good drainage. 																
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43		Which two of the following plants should Emma recommend to the client to plant in the border?	d															
		<table border="1"> <thead> <tr> <th></th> <th>Plant</th> <th>Reasons</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td><i>Viburnum davidii</i></td> <td> <ul style="list-style-type: none"> • Evergreen shrub. • Tolerates shade. • Height: 1.5 metres. • Tolerates exposure. • Little or no pruning required. </td> </tr> <tr> <td>2.</td> <td><i>Delphinium</i> 'Clifford Sky'</td> <td> <ul style="list-style-type: none"> • Herbaceous perennial. • Requires full sun. • Height: 2.5m. • Requires good staking. • Deadhead regularly and cut back in autumn. </td> </tr> <tr> <td>3.</td> <td><i>Lavandula angustifolia</i> 'Munstead'</td> <td> <ul style="list-style-type: none"> • Evergreen shrub. • Requires full sun. • Height: 0.5 metres. • Requires free draining soil. • Prune by clipping back flowers. </td> </tr> <tr> <td>4.</td> <td><i>Sarcococca confusa</i></td> <td> <ul style="list-style-type: none"> • Evergreen shrub. • Tolerates shade. • Height: 1.5 metres. • Requires shelter. • Little or no pruning required. </td> </tr> </tbody> </table>		Plant	Reasons	1.	<i>Viburnum davidii</i>	<ul style="list-style-type: none"> • Evergreen shrub. • Tolerates shade. • Height: 1.5 metres. • Tolerates exposure. • Little or no pruning required. 	2.	<i>Delphinium</i> 'Clifford Sky'	<ul style="list-style-type: none"> • Herbaceous perennial. • Requires full sun. • Height: 2.5m. • Requires good staking. • Deadhead regularly and cut back in autumn. 	3.	<i>Lavandula angustifolia</i> 'Munstead'	<ul style="list-style-type: none"> • Evergreen shrub. • Requires full sun. • Height: 0.5 metres. • Requires free draining soil. • Prune by clipping back flowers. 	4.	<i>Sarcococca confusa</i>	<ul style="list-style-type: none"> • Evergreen shrub. • Tolerates shade. • Height: 1.5 metres. • Requires shelter. • Little or no pruning required. 	
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		<ul style="list-style-type: none"> a. 1 and 2. b. 2 and 3. c. 4 and 4. d. 4 and 1. 	
Number	Test Spec Ref	Question	Key
44	203 204 AO4	<p>You have been asked to investigate why an area of shrub planting is failing to establish. Your investigation reveals that</p> <ul style="list-style-type: none"> • the area is covered with <i>Ranunculus repens</i> (Creeping buttercup) • a soil sample smells of rotten eggs • the shrubs roots are blue-black in colour • the shrubs leaves appear to be wilting. <p>What is the critical issue with the site?</p>	b
		<ul style="list-style-type: none"> a. The site is too dry. b. The site is water logged. c. The soil is lacking organic matter. d. The depth of soil is too shallow. 	
Number	Test Spec Ref	Question	Key
45	203 204 AO4	<p>There is an infestation of a weed in a lawn. There are a number of controls that could be used to control the weed.</p> <ul style="list-style-type: none"> • Encourage vigorous grass growth by applying a proprietary top-dressing in early spring. • Feed the grass when it is growing actively with proprietary spring and summer lawn fertilisers. • Apply selective weed killer. <p>Based on the available controls, which of the following statements describes the weed and its preferred soil conditions in a lawn?</p>	d
		<ul style="list-style-type: none"> a. Monocotyledonous weed that requires rich soil. b. Monocotyledonous weed that tolerates poor soil. c. Dicotyledonous weed that requires rich soil. d. Dicotyledonous weed that tolerates poor soil. 	
Number	Test Spec Ref	Question	Key
46	205 206 AO4	<p>You and your staff are due to start work on a new job in the morning. An essential piece of equipment needed for the job has a broken operator presence control/dead man switch. What should be done and why?</p>	b
		<ul style="list-style-type: none"> a. Only use the machine yourself to avoid putting your employees in danger. b. Fix the machine before starting the job as employees should work in a safe environment. 	

		<ul style="list-style-type: none"> c. Use the machine for the least amount of time possible to reduce the chance of an accident. d. Ensure that your employees are aware that the machine has a broken switch so they are extra careful when using it. 	
Number	Test Spec Ref	Question	Key
47-49	AO4 205 206	<p>Luke has his own machinery maintenance business. One of his staff has serviced a strimmer for a customer and told Luke what he used:</p> <ul style="list-style-type: none"> • 2 hours labour at £24.00/hour • 3 litres of oil at £2.00 per litre • 1 spark plug at £4.50 each. <p>Luke has to inform the customer of the work done by sending them the invoice.</p>	
Number	Test Spec Ref	Question	Key
47		<p>What details should be included on the invoice?</p> <ul style="list-style-type: none"> a. Parts used, time spent, total cost plus VAT. b. Materials used, payment details, cost excluding VAT. c. Operator details, order number, total cost including VAT. d. Tools used, company name and address, cost excluding VAT. 	a
Number	Test Spec Ref	Question	Key
48		<p>When the customer receives the invoice they query the amount of oil used. What action should Luke take in relation to the query?</p> <ul style="list-style-type: none"> a. Email the customer and say the invoice is due for payment. b. Phone the customer and say the invoice contains the correct amount. c. Phone the customer and apologise for the mistake. d. Email the customer and say the member of staff has been suspended. 	c
49		<p>How can Luke ensure this type of complaint does not happen in the future?</p> <ul style="list-style-type: none"> a. Complete a risk assessment. b. Get another member of staff to do the job. c. Do all maintenance by himself. d. Keep a maintenance record sheet. 	d
Number	Test Spec Ref	Question	Key
50	202 206 AO4	<p>Smeeta is the owner of a plant nursery. It is April and Smeeta receives a large order from a long-standing customer. She has heard that business has been slow for them for the last couple of months. Smeeta delivers the plants to them and</p>	c

		<p>sends the invoice with a payment date for 60 days later. Why did Smeeta do this?</p>	
		<ul style="list-style-type: none">a. Payment cannot legally be requested from the customer before this time.b. The size of the customer's order determines the payment date.c. There is a good working relationship with the customer.d. The customer has to improve their credit rating before they can pay.	

SAMPLE