

Environmental and Land Based Science

General Certificate of Secondary Education

Unit **B492/01/03**: Amenity Horticulture (Foundation Tier)

Mark Scheme for June 2012

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

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Annotations

Used in the detailed Mark Scheme:

Annotation	Meaning
/	alternative and acceptable answers for the same marking point
(1)	separates marking points
not/reject	answers which are not worthy of credit
ignore	statements which are irrelevant - applies to neutral answers
allow/accept	answers that can be accepted
(words)	words which are not essential to gain credit
words	underlined words must be present in answer to score a mark
ecf	error carried forward
AW/owtte	alternative wording
ORA	or reverse argument

Available in scoris to annotate scripts

Annotation	Meaning
	indicate uncertainty or ambiguity
	benefit of doubt
	contradiction
	incorrect response
	error carried forward
	draw attention to particular part of candidate's response
	draw attention to particular part of candidate's response
	draw attention to particular part of candidate's response

	no benefit of doubt
	reject
	correct response
	draw attention to particular part of candidate's response
	information omitted

Subject-specific Marking Instructions

- a. If a candidate alters his/her response, examiners should accept the alteration.
- b. Crossed out answers should be considered only if no other response has been made. When marking crossed out responses, accept correct answers which are clear and unambiguous.

E.g.

For a one mark question, where ticks in boxes 3 and 4 are required for the mark:

Put ticks (✓) in the two correct boxes.

<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

This would be worth 1 mark.

Put ticks (✓) in the two correct boxes.

<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

This would be worth 0 marks.

Put ticks (✓) in the two correct boxes.

<input checked="" type="checkbox"/>
<input type="checkbox"/>

This would be worth 1 mark.

- c. The list principle:
If a list of responses greater than the number requested is given, work through the list from the beginning. Award one mark for each correct response, ignore any neutral response, and deduct one mark for any incorrect response, e.g. one which has an error of science. If the number of incorrect responses is equal to or greater than the number of correct responses, no marks are awarded. A neutral response is correct but irrelevant to the question.

- d. Marking method for tick boxes:

Always check the additional guidance.

If there is a set of boxes, some of which should be ticked and others left empty, then judge the entire set of boxes.

If there is at least one tick, ignore crosses. If there are no ticks, accept clear, unambiguous indications, e.g. shading or crosses.

Credit should be given for each box correctly ticked. If more boxes are ticked than there are correct answers, then deduct one mark for each additional tick. Candidates cannot score less than zero marks.

E.g. If a question requires candidates to identify a city in England, then in the boxes

Edinburgh	
Manchester	
Paris	
Southampton	

the second and fourth boxes should have ticks (or other clear indication of choice) and the first and third should be blank (or have indication of choice crossed out).

Edinburgh			✓			✓	✓	✓	✓	
Manchester	✓	x	✓	✓	✓				✓	
Paris				✓	✓		✓	✓	✓	
Southampton	✓	x		✓		✓	✓		✓	
Score:	2	2	1	1	1	1	0	0	0	NR

Question		CBT	Answer	Mark	Guidance										
1		1	C; put up information signs	1											
2	(a)	2	A; annuals	1											
	(b)	3	B; repeat flowering	1											
3		4	D; selective breeding	1											
4		5	<pre> graph LR H[hygrometer] --- Hum[humidity] P[pH meter] --- Ac[acidity] P --- Light[light] T[thermometer] --- Temp[temperature] </pre>	3											
5		6	<table border="1"> <tr> <td>Deep shade and near a road</td> <td></td> </tr> <tr> <td>full sun near water supply;</td> <td>✓</td> </tr> <tr> <td>in a deep valley with trees nearby</td> <td></td> </tr> <tr> <td>sheltered site with good light</td> <td>✓</td> </tr> <tr> <td>steep slope facing north</td> <td></td> </tr> </table>	Deep shade and near a road		full sun near water supply;	✓	in a deep valley with trees nearby		sheltered site with good light	✓	steep slope facing north		2	
Deep shade and near a road															
full sun near water supply;	✓														
in a deep valley with trees nearby															
sheltered site with good light	✓														
steep slope facing north															

Question		CBT	Answer	Mark	Guidance
6		7	B ; hard wearing	1	
7		8	advantage cheaper to purchase; easier to maintain; no need to top up fuel; easy to start disadvantage risk of cutting cable/ electrocution; cannot use in rain; needs a mains socket; cannot mow large areas	2	1 mark for advantage 1 mark for disadvantage allow reference to weight in either if described correctly reject : costs of running
8		9	two from : coir/ coconut fibre; soil/ loam; composted garden waste; wood fibre; rockwool	2	allow garden compost
9		10	two from : pests; diseases; lack of nutrients	2	reject soil is too dry
10		11	two from : better quality plants; improved timings/ meeting production deadlines; reduced wastage; profit	2	accept concept of better appearance reject answers relating to having a pest or disease or spread alone
11		12	thin out: removal of weak or extra seedlings; prick out: re-potting seedlings into their own space/ pots; pot on: placing plants into final/ larger pots	3	
12		13	geranium/ pelargonium; pansy; begonia; French marigold; English/ pot marigold; alyssum; antirrhinum; petunia	1	common name is acceptable accept any summer flowering, short plant which is horticulturally treated as an annual

Question		CBT	Answer	Mark	Guidance
13	(a)	14	Nov 2009	1	
	(b)	14	35p	1	
	(c)	15	two from cost of production lower/ plants can be grown outside; lots of flowers available at that time reducing the price; demand for flowers may be lower; end of growing season	2	accept people have daffodils in their own gardens
	(d)	15	daffodils cannot be made to flower in these months; no daffodils are available at market	1	accept they do not grow naturally in the UK and it's too costly to transport from the Southern Hemisphere
	(e)	16	£1.00	1	
14		17	three from: Water; feed; check/ spray for pests/ disease; dead-head/ trim	3	reject weeding or changing of soil reject responses related to site
15		18	two from: easy to care for; inexpensive; colour all year; good for leisure activities; show off other plants well	2	allow responses related to aesthetic benefits allow specific leisure activities such as children playing
16		19	do not swing tools; do not run; obey instructions; carry tools in wheelbarrow; be aware of others	3	1 mark maximum for PPE references allow: replace tools/ keep them tidy
Total				36	

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