

# **Amenity Horticulture**

General Certificate of Secondary Education **B492/02**

## **Mark Scheme for June 2010**

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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.

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Question	Expected Answers	Marks	Additional Guidance
1	D provides the plant with extra nutrients	1	
2	A composted bark	1	
3	B ethical: peat harvesting destroys natural habitats	1	
4	A chemical residues within the crop are reduced. E there is a reduced need to store dangerous chemicals on site.	2	
5	B other product lines make more profit in other seasons.	1	
6	X to be positioned at first island shelf unit from the entrance door	1	Allow a position at the front (left) of a till unit. Allow front of shelf unit on wall to left of entrance.
7	D there are no white roots in the compost E wilting of the leaves of the plant	2	
8	A higher humidity increases the risk of some diseases	1	

9		<p>typical answers:          Flowering Cherry (Prunus) / crab / edible apple (Malus) / False Acacia (Robinia pseudoacacia) / Honey Locust (Gleditsia) / Silver Birch (Betula pendula)          reason must relate to suitability to the specific location ie not prickly / attractive leaves or flowers</p>	2	<p>1 mark for plant, 1 mark for reason          wide range of potential answers, marker to allow any small to medium growing tree          common or botanical names both acceptable.          Accept fruit tree &amp; enjoyment of growing own fruit OWTTE          Reject does not shade the garden / small (clue from question)          Reject conifer / fir tree</p>
10		<p>conditions: temperature / light / (relative) humidity / moisture / nutrients / pH;           reason: more cost effective than manual means / more precise;</p>	2	<p>Reject ventilator or heater (these are not conditions), heat           Accept less labour intensive</p>
11		<p>better heat retention / reduced heat loss / lower heating costs;          stronger material / less repairs / safer;          larger sheets – easier to install</p>	2	<p>Reject 'cheaper' without clarification          Reject cheaper to buy          Reject better light transmission</p>
12		<p>increase the height of cut;          remove some spacers between the blade and the machine</p>	2	<p>Reject generalist comments</p>

13			cut the stems to allow water uptake; use a flower food; keep in a cool position; remove any leaves which will be below water level / hygiene (change water regularly)	2	Reject put into water/ keep water level up Reject dead heading
14			pruning: in winter / spring, prune back to a bud (sloping cut) / remove dead, diseased or damaged wood (the 3 D's); feeding: FYM applied in winter around base of plants disease control: spray with pesticide when problems observed (or organic equivalent) dead heading: removal of dead flowers in summer / autumn	3	Allow irrigate in dry conditions  response must include WHEN and HOW MUST have dead heading / pruning for max marks
15	a		hybrid vigour; more even flowering time; more flowers; more uniform	2	Reject "better" without clarification of why.
	b		Ruby Sunset	1	
16	a	i	1.8 higher than expected	1	
	a	ii	result is statistically similar to the published data / not significantly different; the grower is likely to be growing in optimal conditions OWTTE	2	Reject generalist comments the key issue is that the trial has performed as would be expected

	<b>b</b>	10%	1	
	<b>c</b>	£1.71	1	item must be expressed as a monetary value ie £1.71 or 171p
<b>17</b>		any two from: propagate in early spring (January-April); root tuber to be cut to ensure that each part contains a bud / stem; pot on into individual pots to grow on	2	Allow a description based upon taking softwood cuttings from shoots forced from an early planted tuber.
<b>18</b>		any three from: identification of hazards; assessment of risk (calculation of likelihood); evaluation of current practice; recommendation of improved practice / rules / instructions / reduction of risk; prioritisation	3	free response answer
<b>Total</b>			<b>36</b>	

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