

Environmental and Land Based Science

General Certificate of Secondary Education

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

Mark Scheme for June 2011

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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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Abbreviations, annotations and conventions used in the detailed Mark Scheme.

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

Question	CBT Question numbers	Expected Answers	Marks	Additional Guidance
1	1	more customers can see the plants there	1	
2	2	D takes two years to complete its life cycle	1	
3	3	the colour has been selectively bred	1	
4	4	sowing thinning (given) pricking out potting on	2	1 mark: 1 or 2 in correct place 2 marks: all in correct places
5	5	D more cost effective	1	
6	6	control is more rapid; one spray will control a wide range of problems	2	
7	7	pansy trailing geranium	2	
8	8	wide range of possible answers (likely to include): poinsettia, cyclamen, azalea, chrysanthemum, saintpaulia, cineraria	2	criteria: must be short growing, grown for flowers, suitable for pot growing accept daffodils; tulips; hyacinths; geranium; busy lizzies reject pansies
9	9	two from: more cost effective in the long term; less labour in replanting/only need to plant once; wider range of varieties/form	2	
10	10	two from: watering; feeding; pruning/removal of dead or damaged growth	2	accept weeding remember: answer must relate to herbaceous perennials
11	11	hover / steep banks	2	accept difficult to manoeuvre places

Question		CBT Question numbers	Expected Answers	Marks	Additional Guidance
12		12	the cause of the fuse blowing is still there OWTTE	1	accept larger current increases the size of the hazard accept reference to larger amount of electricity in machine causing a surge owtte
13		13	three from: choose a flat site; not shaded / sunny; sheltered position; near to a water supply; OWTTE	3	accept close to road or path
14	a	14	Christmas decorations	1	accept gifts
	b	14	outdoor plants	1	
	c	14	25%	1	
15	a	15	T in week 9 F in week 17	1	
	b	16	D = 18	1	
	c	16	N = 10	1	
16		17	one mark for concept that plants grow less well one mark for reason why: depletion of nutrients; risk of pests in soil; diseases in soil	2	
17		18	three from: harm beneficial (other) organisms; leaching into soil; residues in plants; might not control the problem; harm operator / general public	3	reject not environmentally friendly or concepts of upsetting the natural balance reject kills the plant accept damage to plant/growth

Question		CBT Question numbers	Expected Answers	Marks	Additional Guidance
18		19	three from: level site; remove weeds; rake / remove stones or debris; apply fertiliser; firm soil and rake; sprinkle seed evenly; rake lightly; water; keep off seedlings until established	3	accept planting time reference; correct rate of application; cover with netting; choice of correct seeds
			Total	36	

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