

OXFORD CAMBRIDGE AND RSA EXAMINATIONS GCSE (HIGHER TIER)

ENVIRONMENTAL AND LAND-BASED SCIENCE

B492H

Amenity Horticulture

Specimen Mark Scheme

The maximum mark for this test is 36.

Question Number	Answer	Marks
1	C (AO1)	[1]
2	B (AO2)	[1]
3	B (AO2)	[1]
4	D (AO1)	[1]
5	B (AO1)	[1]
6	B (AO1)	[1]
7	A (AO1)	[1]
8	One mark each for any two points (AO1). Cuts long grass/cuts wet grass/works on uneven surfaces/can cope with twigs/easier maintenance.	[2]
9	No protective clothes/gloves/mask/breathing apparatus (or similar) (AO1).	[1]
10	Max two marks (AO2).	
	Feature: double glazing Advantage: better insulation (1)	
	Feature: concrete Advantage: better insulation/durable (1)	
	Feature: white walls Advantage: heat reflection (1)	
	Feature: below soil Advantage: better insulation/constant temperature (1)	[2]
11	Position A: cheap, cable a problem (1) (AO1). Position B: noisy, effective, shortlived, safety problem (1) (AO1). Position C: strong, efficient, the more blades the better the cut (1) (AO1).	[3]
12	If electric, can cut through wire/danger of blades when lifted (1) (AO2).	[1]
13	Chitted seeds: dry out/root damage (1) (AO2).	[1]
14	Seedlings in jelly: difficult to extract and plant (1) (AO2).	[1]
15	Plantlets: easy to damage young stems (1) (AO2).	[1]
16	Advantage: can grow things out of season/can control conditions (1) (AO1). Disadvantage: more expensive/more environmental damage (1) (AO1).	[2]
17	 One mark each for any two of the following points (AO1): fewer labour costs; always accurate/right conditions; automatic/works all the time; records environmental conditions. 	[2]
	Tecolus environmental conditions.	[2]

Question Number	Answer	Marks
18	The more Chewings fescue, the better the turf quality (AO2).	[1]
19	One mark each for any two of the following features (AO2): prostrate runners; low growing points; deep root systems.	[2]
20	Max two marks each for any two growing methods discussed (AO1).	
	Cloche Advantages: moveable/cheap (1). Disadvantages:easily damaged e.g. by wind/only used for small plants (1).	
	Cold frame Advantages: stable/good for pots (1). Disadvantages:permanent/needs daily operations e.g. water/opening lid (1).	
	Polytunnel Advantages: good growing area/control of conditions (1). Disadvantages: liable to wind damage/can become brittle (1).	
	Glasshouse Advantages: stable/easy for auto control of environment (1). Disadvantages: expense/permanent building (1).	FA1
21	Gene (1); DNA change (1) (AO1).	[4] [2]
	Level of response - credit for argued case and for details with examples (AO1).	
	Examples: colour/taste/shelf life/resistance/growth rate.	
	Pro: efficient financially/maximises resources/helps third world or	
	con: unknown effects/unnatural/unnecessary.	[4]
	Total	[36]