UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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## for the guidance of teachers

## 0445 DESIGN AND TECHNOLOGY

0445/23 Paper 2 (Graphic Products), maximum raw mark 50

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

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

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1	Mark Scheme: Teachers' version S	Syllabus r
	IGCSE – October/November 2010	0445 23
Diagonals ev 6 petals	any size correct size 50 side rident prrect size of O/L	Syllabus 0445 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Chord		(1) (1) [9]
		[Total: 9]
	ctangle to size 160 long d proportion of:	(1)
E R		(1)
S		(1) (1)
Spacing Height		(1) (1) [6]
		[Total: 6]
	op s (similar size to given) s symmetrical & constructed	(1) (1) (1) [3]
(b) Plan +/- <sup>-</sup> Base cor	1 mm rrect – 80 square	(1)
3 square	l0 square hidden detail es concentric	(1) (1)
Petal top	o – 58 square	(1) [4]
Side viev Length o Length o	of long side 80	(1) (1)
Overall h	•	(1) [3]
		[Total: 10]
4 (a) Plan and		(1)
Plan leng Plan widt	th 92.5	(1) (1) (1)
Thicknes		

Pa	ge 3	Mark Scheme: Teachers' version	Syllabus	r
Γu	ye J	IGCSE – October/November 2010	0445	
	<b>a</b> <i>i</i>		Syllabus 0445 (4) (4) (1)	C.
(b)		ositions of 4 holes	(4)	76
		s – correct spaces	(4)	70
		itals – correct spaces	(4)	
		in position on plan		
	A circle representing top of plant pot		(1)	
	Ø70 to s	cale	(1)	
	A circle r	epresenting bottom of plant pot	(1)	
		e (Ø50 – thickness) to scale	(1)	
	<b>a</b> <i>i</i>			
	Correct p	position on plan	(1)	[13]
(c)	Plant pot	in position on front elevation		
(-)	Ø70 proj	•	(1)	
	Ø50 proj		(1)	
	Height 50	) from top base to p/ll top	(1)	[3]
(d)	The corr	ect size hole needed in top		
(4)		3 +/- 2mm (Ø66 to scale)	(1)	
		3 spare positions	(1)	
	Evidence	of projection 0–2 pr	(2)	[4]
			п	otal: 25]
			1.	
(a)	Pie chart			
	Circle dra		(1)	
	Divided i		(1)	
	Correct o	11/15/00/300		
		/ 45° / 120° / 30° (max4)	(4)	
		sectors – clear labels	(4)	[8]
<i>.</i> -	U			
(b)		ensional chart	(4)	
		ate method (e.g. bar) scale selected	(1) (1)	
		on correctly plotted ×5	(1)	
	Labels e		(1)	
		nhancement	(1)	[9]
			. ,	
(c)		ires for annual report		
		o match garden plants pr 1–2	(2)	
	•	o match cut flowers pr 1–2	(2)	
		plants larger than cut flowers	(1)	
	Labels e	plants approx $2.5 \times$ larger than cut flowers	(1) (1)	
		nhancement	(1)	[8]
				L*.