UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/22 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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CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Pa	age 2	Mark Scheme: Teachers' version	Svllabus 7.0	r
-		IGCSE – October/November 2010	0445	02
1 Ce Ou Ou Dia 6 p 6 p Ste Lea	entre circle to size Itside hex any size Itside hex correct s agonals evident betals betals to correct sizem af : R35 quadran Chord	Ø 40 e size 50 side ze of O/L t	(1) (1) (1) (1) (1) (1) (1) (1) (1)	Cannbridge [9]
				[10tal. 9]
 2 Complete rectangle to size 160 long Accuracy and proportion of: E R S 			(1) (1) (1) (1)	
Sp He	acing ight		(1)	[6]
	0			[Total: 6]
.3 (a)	Curved top Two arcs (simila Two arcs symme	r size to given) etrical & constructed	(1) (1) (1)	[3]
(b)	Plan +/- 1 mm Base correct – 8 Neck – 40 squar 3 squares conce Petal top – 58 so	0 square re hidden detail entric quare	(1) (1) (1) (1)	[4]
	Side view Length of long s Length of petal Overall height	ide 80 20 93 +/-2	(1) (1) (1)	[3]
				[Total: 10]
34 (a)	<i>Plan and F. E</i> Plan length Plan width Thickness top Thickness sides	92.5 92.5 2 mm 2 mm	(1) (1) (1) (1) (1)	161

Page 3		Mark Scheme: Teachers' version	Syllabus	r
		IGCSE – October/November 2010	0445	
(b)	Centre n	ositions of 4 holes		de.
(6)	2 vertica	ls – correct spaces	(4)	100
	2 horizor	ntals – correct spaces	(4)	10
	Plant pot in position on plan		(1)	
	Ø70 to s	cale	(1)	
	A circle r	representing bottom of plant pot	(1)	
	Ø46 circl	le (Ø50 – thickness) to scale	(1)	
	Correct r	position on plan	(1)	[13]
	r	·		
(n)	Diant not	t in position on front elevation		
(C)	Ø70 proi	ected	(1)	
	Ø50 proj	ected	(1)	
	Height 5	0 from top base to p/ll top	(1)	[3]
(d)	The corr	ect size hole needed in top		
()	Size Ø3	3 +/- 2mm (Ø66 to scale)	(1)	
	In one of	3 spare positions	(1)	
	Evidence	e of projection 0–2 pr	(2)	[4
			[Tc	otal: 25]
(a)	Pie char	t		
	Circle dra	awn	(1)	
	Correct of	nio 5 tivisions	(1)	
	750/900/	450/1200/300		
	75° / 90°	/ 45° / 120° / 30° (max4)	(4)	
	2 largest	sectors – clear labels	(2)	[8]
(b)	Two dim	ensional chart		
(0)	Appropri	ate method (e.g. bar)	(1)	
	Suitable	scale selected	(1)	
	Informati	on correctly plotted ×5	(5)	
	Labels e	vident	(1)	
	Colour e	nhancement	(1)	[9
(c)	2009 figu	ures for annual report		
	Symbol t	to match garden plants pr 1–2	(2)	
	Symbol t	to match cut flowers pr 1–2	(2)	
	Garden	Diants larger than Cut flowers	(1)	
		vident	(1) (1)	
	Colour e	nhancement	(1)	[8]
			ITo	otal: 25