CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2012 series

0445 DESIGN AND TECHNOLOGY

0445/23

Paper 2 (Graphic Products), maximum raw mark 50

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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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0445	23
A1	(a)	Part octa Length o 45° line (Part octa Regular Straight	agon of one side (1) (1) agon shape (any size) (1) part octagon (1) line connecting part octagons (1)		[5]
	(b)	<i>Cup</i> Top (1) Bottom (Side (1)	1)		[3]
	(c)	Semi-cire	cle to fit (1)		[1]
	. ,				[Total: 9]
A2	(a)	Accuracy A (1) U (1) Spacing Height (1	y and proportion of (1) 1)		[4]
	(b)	Pordor o	vident (1)		
	(D)	Symmet	rical (1)		[2]
					[Total: 6]
A3	(a)	Hexagor Hexagor Depth of	n drawn pictorially (1) n is isometric to O/L (1) r hexagon box correct to O/L (1)		[3]
	(b)	Width of Semi-cire Semi-cire Burger fi Burger b	Burger 54 (1)1 cle plots evident (1) cle drawn to O/L (1) lling 8 thick (1) oun (lower part) 54 x 8 (1)		[5]
		-			
	(c)	Slot on te slot 25 x	op face (1) 4 or greater (1)		[2]
					[Total: 10]

	Page 3		Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2012	0445	23	
B4	(a)	F.E. Width 122 (61) (1) Height of container 80 (40) (1) Handle 110 (55) above container (1) Finger slot correct size 78 x 20 (39 x 10) (1) Two tapered sides 2×1 (2) Tenon of divider (1)				
	(b)	<i>Plan</i> External Four spa Four spa Card wa Hidden c	square 122 x 122 (61 x 61) (1) aces evident (1) aces 52 x 52 (26 x 26) (1) Ils shown 3 mm thick (1) detail to show finger hole (1)		[5]	
	(c)	<i>E.E.</i> Width 12 Height p Handle p Hidden o	22 (61) (1) rojected from F.E. (to cand soln) (1) projected from F.E. (to cand soln) (1) detail to finger slot (1)		[4]	
	(d)	Drink Bo Two con Ø26 circ Ø10 circ Ø26 – 10 angle Ø2 Ø10 to 7 Candida Hidden o Hidden o	ttle centric circles evident (1) le in location D on plan (1) le in location D on plan (1) 20 mm (50) high on F.E. (1) 26 to Ø10 on F.E. (1) 5 high on F.E. (1) te solution projected to E.E. (1) detail of bottle shape on F.E. (1) detail of bottle shape on E.E. (1)		[9]	
					[Total: 25]	
					[10(a), 20]	

	Page 4		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0445	23
B5	(a)	5 main p Centre p	anels (1) anel 100 wide (1)		[2]
		Base 40 Two flap	deep (1) s to base min 10 wide (2 x 1) (2)		[3]
		Back 120 Lettering OUT add	0 tall rectangle (1) j wings (2 x 1) (2) ded to R/H wing (1)		[4]
		Ellipse si Minor ax Some ev Correct o Profile to	hape evident (1) is 50 (25 to scale) (1) vidence of construction (1) construction shown (1) o candidate plots (1)		[5]
		Two side Two flap 4 x main	es 40 x 70 (2 x 1) (2) s added to 70 long (2 x 1) (2) fold lines correctly shown (4 x 1) (4)		[8]
	(b)	Tab evid Slot evid Locking	lent (1) lent (1) possible? (1)		[3]
					[Total: 25]