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

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.

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Page 2		Mark Scheme	Syllabus	.0
		IGCSE – October/November 2012	0445	123
A1 (a	45° line (Part octa Regular	f one side (1)		W. Papa Cambridge
(b	Cup 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)			[4]
(b) Border e Symmet			[2]
				[Total: 6]
A3 (a	Hexagor	n drawn pictorially (1) n is isometric to O/L (1) hexagon box correct to O/L (1)		[3]
(b	Semi-ciro Semi-ciro Burger fi	Burger 54 (1)1 cle plots evident (1) cle drawn to O/L (1) lling 8 thick (1) un (lower part) 54 x 8 (1)		[5]
(c) Slot on to slot 25 x	op face (1) 4 or greater (1)		[2]
				[Total: 10]

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Page 3		Mark Scheme	Syllabus
		IGCSE – October/November 2012	0445
l (a)		container 80 (40) (1) 10 (55) above container (1)	SIM
	Finger slo	ot correct size 78 x 20 (39 x 10) (1)	

(b) Plan

External square 122 x 122 (61 x 61) (1)

Four spaces evident (1)

Four spaces 52 x 52 (26 x 26) (1)

Card walls shown 3 mm thick (1)

Hidden detail to show finger hole (1)

(c) E.E.

Width 122 (61) (1)

Height projected from F.E. (to cand soln) (1)

Handle projected from F.E. (to cand soln) (1)

Hidden detail to finger slot (1)

[4]

[5]

(d) Drink Bottle

Two concentric circles evident (1)

Ø26 circle in location **D** on plan (1)

Ø10 circle in location **D** on plan (1)

Ø26 – 100 mm (50) high on F.E. (1)

angle Ø26 to Ø10 on F.E. (1)

Ø10 to 75 high on F.E. (1)

Candidate solution projected to E.E. (1)

Hidden detail of bottle shape on F.E. (1)

Hidden detail of bottle shape on E.E. (1)

[9]

[Total: 25]

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[Total: 25]

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Page 4		Mark Scheme	Syllabus
		IGCSE – October/November 2012	0445
B5 (a)	5 main p Centre p	anels (1) anel 100 wide (1)	Syllabus 0445
		deep (1) s to base min 10 wide (2 x 1) (2)	[3]
	Lettering	0 tall rectangle (1) wings (2 x 1) (2) ded to R/H wing (1)	[4]
	Minor ax Some ex Correct	hape evident (1) is 50 (25 to scale) (1) ridence of construction (1) construction shown (1) c candidate plots (1)	[5]
	Two flap	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	` ,	[3]