## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2011 question paper 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.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0445	23
<b>A</b> 1	(a)		-angled triangle (1) - 20 from deck (1)		[2]
	(b)	Any quad R40 (1) Two miss	drant (1) sing lines from hull (1+1)		[4]
	(c)		agon (1) hexagon 90 A/C (1) 8 from mast (1)		[3]
					[Total: 9]
<b>A2</b>	(a)	Missing I	ines (1)		[1]
	(b)	Accuracy	v and proportion of:		
		<b>R</b> (2) <b>T</b> (1)			
		Spacing Height (1			[5]
		3 3 (	,		[Total: 6]
A3	(a)		square base (1) f base 60 (1)		
		20 SQ ho	ole (1) sole central to side (1)		
		Ø80 cylir	nder top (1) cylinder (or crate) (1)		
			ching sides of base (1)		[7]
	(b)	Tone app	· ·		[0]
		rone sno	own different on min 2 faces (2)		[3]
					[Total: 10]
B4	(a)	Development Six connected surfaces (1) 5 extra surfaces to O/L tolerance +/- 3mm on 73 slope to lid allow for error c/f (5) three further glue tabs			
		(on 70 lo glue tabs	ng sides) 3 × 1 (3) s 9 wide (1) s angled ends (1)		
			flaps with radius ends (3) s (4 × 1) (4)		
		Coin slot	size 30 × 5 (1)		
			centrally on lid (1) correct orientation (1)		[21]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0445	23
	(b)	Sketch: – suitable method Slot on lid etc (1) Extra tab etc (1)  Notes: Evident (1)			
		Good (1)			[4]
					[Total: 25]
B5	(a)	Mast cor Mast cor	view ctangle 240 length + 120 width (1) rect 10 wide (1) rect position 140 from RHS (1) truding (1)		
		20 × 80 r semi-circ 2 fold line	) rectangle to R of mast (1) rectangle to L of mast (1) cle R40 on centre line (1) es shown (2 × 1) (2) gs' 20 long (2 × 1) (2)		
		Minor ax On centr Construc	is 120 (60 shown) (1)		[18]
	(b)		v correct position (2 × 1) (2) & 100 shown. (1)		[3]
	(c)	Joining Additiona Notes Pr	al card + joint Pr 0–2 (2) · 0–2 (2)		[4]
					[Total: 25]