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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/23

Paper 23 (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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Page 2	Mark Scheme: Teachers' version	Syllabus
	IGCSE – May/June 2010	0445
·	-	S.

A1 Rectangular screen 50 × 4 (2)

Ø50 circle (1)

Triangle $45^{\circ} \times 90^{\circ}$ size (1) pos(1) (2 × 1)

Complete outline 70 × 120 (2)

Radius to min two corners (2)

[9]

[Total: 9]

A2 Accuracy and proportion of:

A (1)

Y (1)

E (1)

R (1)

Spacing (1)

Height (1)

[6]

[Total: 6]

A3 (a) Development (net)

4 sides (1)

Regular square 64 side (1)

4 semi-circles min 2 drawn accurately (2 × 2)

[6]

(b) Correct side folded box 3 (1)

Overlap correct box 3 (1)

Overlap correct box 4 (1)

Tuck in shown correctly (1)

[4]

[Total: 10]

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Page 3		ge 3	Mark Scheme: Teachers' version	Syllabus	r
	<u> </u>	900	IGCSE – May/June 2010	0445	
B4		Age 3 Mark Scheme: Teachers' version IGCSE – May/June 2010 Division by construction (evident) (2) Verticals 93/95 spacing (1) 77 × 70 rectangle (2) Ø26 for head & body (2) Body correct height (41 +/–1) (1) Ø12 on hand (1) correct position (1) (2 × 1)			
		Arm (Arm a MP3	der (1) two parts 1 + 1) (2) ingle 60° (1) pr 0–3 (3) phones (1)	[15]
	(c)		uitable chart/graph type 0–2 (2) ata represented accurately 0–2 (2)		[4]
			uitable chart/graph type 0–2 (2) tata represented correctly (1)		[3]
		_	ata represented correctly (1)	[Total: 2	
				-	-
B5	(a)	L H T M O C F R	ength of stand 150 (1) leight of stand 20 (1) op of stand to Centre line 20mm (1) lajor axis correct size 50 (1) linor axis correct size 30 (1) construction for ellipse (0–2pr) (2) surve line quality (0–2pr) (2) uselage 30 high (1) lear fuselage 15° × 45 (1) ail fin R35 (1)		13]
		(ii) <i>F</i> V V V V	. ,		[7]
	(b)	Symbol Symbol matching projection (1) Quality drawing (1)			[2]
	(c)	Joint at A Slot (1)			
		•	dered tab (0–2 pr) (2)		[3]
				[Total : 2	25]