

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.

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

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



UNIVERSITY of CAMBRIDGE International Examinations

Page	2 Mark Scheme: Teachers' ver	rsion Syllabus	Paper
	IGCSE – May/June 2010	0445	23
Ø50 ci Triang Compl	ngular screen 50 × 4 (2) rcle (1) le 45° × 90° size (1) pos(1) (2 × 1) ete outline 70 × 120 (2) s to min two corners (2)		[9]
			[Total: 9]
A (1) Y (1) E (1) R (1) Spacin			[6]
Height	(1)		[6]
			[Total: 6]
4 s Re	evelopment (net) sides (1) egular square 64 side (1) semi-circles min 2 drawn accurately (2 × 2)		[6]
O	orrect side folded box 3 (1) verlap correct box 3 (1) verlap correct box 4 (1)		
	ick in shown correctly (1)		[4]
			[Total: 10]

Page 3		ge 3	Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0445	23
B4	(a)		by construction (evident) (2) s 93/95 spacing (1)		[3]
	(b)	Ø26 for Body co Ø12 on Shoulde Arm (tw Arm and MP3 pr	o parts 1 + 1) (2) gle 60° (1)		[15]
	(c)		table chart/graph type 0–2 (2) a represented accurately 0–2 (2)		[4]
			table chart/graph type 0–2 (2) a represented correctly (1)		[3]
					[Total: 25]
B5	(a)	Len Hei Top Maj Min Cor Cur Fus Rea Tail	nt View light of stand 150 (1) ght of stand 20 (1) o of stand to Centre line 20mm (1) or axis correct size 50 (1) lior axis correct size 30 (1) nstruction for ellipse $(0-2pr)$ (2) ve line quality $(0-2pr)$ (2) selage 30 high (1) ar fuselage 15° × 45 (1) fin R35 (1) D evident (1)		[13]
		Wir Wir Wir	n Ith of stand 60 (1) ng 30 wide at fuselage (1) ng 55 from nose (1) ng 55 fuselage to centre of radius ×2 (2) ng tip R10 ×2 (2)		[7]
	(b)	Symbol Symbol matching projection (1) Quality drawing (1)			[2]
	(c)) Joint at A Slot (1)			
		• • •	ered tab (0–2 pr) (2)		[3]
					[Total : 25]