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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

0445/22

Paper 22 (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.

	Page 2	Mark Scheme: Teachers' version	Syllabus
	g	IGCSE – May/June 2010	0445
A1	Radius R10 rad Square Hexago Hexago Second	gular body 50 × 80 (2) to top corners (1) ius (1) column 20 side (1) nal top [any size/irregular] (1) nal top 30 side regular (1) pump handle (1) es 45° × 90° (1)	Syllabus 0445  [9]  [Total: 9]
A2	Accurace T (1) I (1) O (1) N (1) Spacing Height (		[6] [Total: 6]
А3	4 si 88 : 2 se	velopment [net] des (1) × 54 rectangle (1) emi-circles R27 (2) emi-circles R44 (2)	[6]
	Top Slot	n rect end folded next (1) o folded down last (1) t determined (1) aight line slot drawn to size (1)	[4] [Total: 10]
В4		ision by construction [evident] (2) ticals 93/94 spacing (1)	[3]
	Ø20 Boo Ø8 Sho Arm Pur Hex Pur	× 70 rectangle (2) 0 for head and body (2) dy correct height 35 (1) on hand [1] correct position [1] (2 × 1) oulder position (1) n [two parts at an angle] (2) mp same height as man (1) kagon top to pump (2) mp handle (1) mp handle aligned with hand (1)	[15]

Page 3 Mark Scheme: Teachers' version Syllal	bus r
IGCSE – May/June 2010 044	15
(c) (i) Suitable chart/graph type 0–2 (2) Data represented accurately 0–2 (2)	bus Total: 25]
(ii) Suitable chart/graph type 0–2 (2) Data represented correctly (1)	[3]
	[Total: 25]
(a) (i) Front View Length of stand 150 (1) Height of stand 20 (1) Top of stand to C Line of Ellipse 32 +/-2 (1) Major axis correct size 40 (1) Minor axis correct size 24 (half12) (1) Construction for ellipse (0-2pr) (2) Curve line quality (0-2pr) (2) Car body 24 high +/-2 (1) Rear tail in line with end of stand (1) Tail fin R30 (1) R 20 to horizontal evident (1)  (ii) Plan In projection from Front View (1) Width of stand 60 (1) Thickness of foamboard 2mm (1) Wing 20 wide each side (1) Wing 70 from nose (1) 2 Wings 30 long (1+1) (2)	[13]
(b) Symbol Symbol matching projection (1) Quality drawing (1)	[2]
(c) Joint at A Slot (1)	
Shouldered tab (0–2 pr) (2)	[3]
	[Total: 25]