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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

0445/21

Paper 21 (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 to R10 radio Square of Hexagon Hexagon Second p	ular body 50 × 80 (2) to top corners (1) us (1) column 20 side (1) tal top [any size/irregular] (1) tal top 30 side regular (1) toump handle (1) tes 45° × 90° (1)	Syllabus 0445 [9] [Total: 9]
A2	Accuracy T (1) I (1) O (1) N (1) Spacing Height (1)		[6]
А3	4 sid 88 × 2 se	elopment [net] les (1) 54 rectangle (1) mi-circles R27 (2) mi-circles R44 (2)	[6]
	Top Slot	ect end folded next (1) folded down last (1) determined (1) ight line slot drawn to size (1)	[4] [Total: 10]
В4		sion by construction [evident] (2) icals 93/94 spacing (1)	[3]
	Ø20 Body Ø8 d Shoo Arm Pum Hexa Pum	70 rectangle (2) for head and body (2) y correct height 35 (1) on hand [1] correct position [1] (2 × 1) ulder position (1) [two parts at an angle] (2) up same height as man (1) agon top to pump (2) up handle (1) up handle aligned with hand (1)	[15]

Page 3		Mark Scheme: Teachers' version	Syllabus
		IGCSE – May/June 2010	0445
(c) (able chart/graph type 0–2 (2) a represented accurately 0–2 (2)	Syllabus 0445 O445 [3]
(i		able chart/graph type 0–2 (2) a represented correctly (1)	[3]
			[Total: 25]
35 (a) (Heig Top Majo Mino Con Curv Car Rea Tail	of View gth of stand 150 (1) ght of stand 20 (1) of stand to C Line of Ellipse 32 +/-2 (1) or axis correct size 40 (1) or axis correct size 24 (half12) (1) struction for ellipse (0-2pr) (2) ve line quality (0-2pr) (2) body 24 high +/-2 (1) r tail in line with end of stand (1) fin R30 (1) to horizontal evident (1)	[13]
(i	Widt Thic Wing Wing	rojection from <i>Front View</i> (1) th of stand 60 (1) kness of foamboard 2mm (1) g 20 wide each side (1) g 70 from nose (1) ings 30 long (1+1) (2)	[7]
S	Symbol Symbol matching projection (1) Quality drawing (1)		[2]
`´S	oint at <i>F</i> lot (1) houldei	red tab (0–2 pr) (2)	[3]