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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 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.

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 2 Mark Scheme: Teachers' version			W. A.	
	Pa	ge 2	Mark Scheme: Teachers' version IGCSE – May/June 2012	Syllabus 0445	
A1	(a)	Head Circle dr Ø40 circ	awn (1)	Syllabus 10 And Connection of the Connection of	
	(b)		wn (1) ches diameter(s) given (1) 0° at elbow (1)	[3]	
	(c)	Front leg 60° to fo Knee at		[2]	
	(d)	Back leg 60° to fo Joins to		[2] [Total: 9]	
A2	(a)	Lettering Accuracy R (1) E (1) Spacing Height (1)	y and proportion of: (1)	[4]	
	(b)	Border Complet Repeat a	e border on Centre line (1) angle (1)	[2] [Total: 6]	
A3	(a)	Top rect In line w Sloping Sloping Semi-oc	c rectangular base (2) angle 40 tall (1) ith base (1) pillar top size 20 × 30 (1) pillar base size 80 × 30 (1) pillar evident 3 edges (1) tagon top evident (1) pition of octagon evident (1)	[9]	
	(b)	Pencil to	ne to rectangle (1)	[1] [Total: 10]	

	Page 3		Mark Scheme: Teachers' version	Syllabus	· V
			IGCSE – May/June 2012	0445	
В4	(a)	PLAN Length 190 (1) Width 100 (1) Front elevation Depth of top 40 (1) 2 mm thickness to top surface & base (1) 2 mm thickness to sides (1)		Syllabus 10445 Add Cann	bridge [5]
	(b)	Centre li Centre o Centre li Cone in	ne at 50 horizontally (1) f one hole 50 in from RHS (1) f one hole 50 in from LHS (1) ne projected to F.E. (1) position C on PLAN (1) presenting top of cone (1) le (1)		[7]
	(c)	60° inclu 60° inclu Ø80 proj Cone co	lent in base on FE (1) ided angle drawn (1) ided angle drawn through Ø10 (1) ected from plan 2 × 1 (2) mplete (2 × sides = 2) (top = 1) (3) ne evident (1)		[9]
	(d)	In remai	e Ø56 ± 2 mm (1) ning position (1) e of projection 0–2 pr (2)	[Total:	[4] 25]
В5	(a)	Two side 1st angle In line fro Overall h	es to hexagon (1) e projection (1) om plan (1) neight 110 (1) top 45° (1)		

[10]

Hexagon drawn (1)
Hexagon correct size to scale (1)
Correct orientation (1)
Circle drawn for window (1)
Circle Ø30 (Ø60 to scale) (1)

5
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(b) Development sides

Development top

True length from EV for hexagon top (1)

Hex width plotted from plan (1)

Construction of ellipse evident from Plan (1)

Ellipse drawn to reference points (1)

[11]

(c) July

Added (1)

On correct face (1)

In correct position (1)

Same style of lettering (1)

[4]

[Total: 25]