CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2014 series

0445 DESIGN AND TECHNOLOGY

0445/22

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



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	Page 2		Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2014	0445	22
			Section A		
A1	(a)	Castle ou Height 65 Width 50 Crenulati Crenulati	utline 5 (1) (1) ions 10 × 10 (1) ions equal spaced and central (1)		[4]
	(b)	<i>Gateway</i> Semi-circ Gate side	, cle Ø20 (1) es 20 apart 30 tall (1)		[2]
	(c)	<i>Side wall</i> 30 high (30 wide (ls 1) (1)		[2]
	(d)	Arcs Arc evide R 120 pa Touching	ent (1) assing through apex given (1) g 30 square corner (1)		[3] [Total: 11]
A2	(a)	Lettering Accuracy A (1) S (1) Spacing Height (1	(1)		[4] [Total: 4]
Α3	(a)	Perspect Length to Length to Half Hex Door side 90° apex 90° apex Door side Min two I Min two I	tive view p right 140 (1) p left 100 (1) door on RHS (1) door 40 wide (1) es 40 high (1) r door on LHS (1) r door 40 wide (1) es 40 high (1) lines to VP1 (1) lines to VP2 (1)		[10] [Total: 10]

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	Page 3		Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2014	0445	22
			Section B		
B4	(a)	<i>Ellipse</i> On Cent Half majo Minor ax Construc Outline to	re line given (1) or axis to size 90 (1) is to size 150 (1) ction 0–2 pr (2) o construction (1)		[6]
		<i>Band</i> In correct Widths e Lower ra Lower ra	et position relative to ellipse (1) extended (1) adius shown × 2 (2) adius both R15 (1)		[5]
		Triangle Evident Triangle Triangles Triangles	<i>eyes</i> ×2 (2) correct size 35 × 15 (1) s centrally spaced (1) s 30 apart (1)		[5]
		<i>Top radi</i> Radius d Radius d R80 touc R80 mee	<i>us</i> Irawn (1) Irawn R80 (1) ches band as tangent (1) ets below given centre level (1)		[4]
	(b)	Rectang Rectang Rectang	le for name shown (1) le 110 × 20 (1) le centrally placed (1)		[3]
	(c)	Drawing (slots an	of suitable method d tabs etc. – 0–2 pr) (2)		[2]
					[Total: 25]

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Page	e 4	Mark Scheme	Syllabus	Paper
		IGCSE – May/June 2014	0445	22
B5 (a) ((i) <i>Triai</i> Triai Tow One Ø26 Crer Viev	ngular Tower ngular base 50 side (1) er 60 high (1) elevation 50 wide (1) elevation 43/44 wide (1) clock evident centrally on 50 side (1) nulations $10 \times 10 \times 10$ on all sides (1) vs in projection (turrets correct) (1)		[7]
(i	ii) Squ Heig Crer Doo Wind Wind View	are Tower pht 100 (1) mulations $10 \times 10 \times 10$ (1) r 25×10 (1) dow 20×10 (1) dow 10 below bottom of turret (1) vs in projection (windows /doors) (1)		[6]
(b) 7 F C C C C C C C C C C C C C C C C C C	Triangular Tower Height 60 (1) Correct orientation (1) Correct depth (44) to apex (1) Apex in correct projection (1) Clock shown (1) Clock on correct face (1) Crenulations on all sides $10 \times 10 \times 10$ (1) Crenulations = spaced on angled sides (1)			[8]
5 	Square 7 Height 6 Side 50 Crenulat Door 30	<i>Tower</i> 0 (1) (1) ions 10 × 10 × 10 on all sides (1) × 35 on correct side (1)		[4] [Total: 25]