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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2007 question paper

## 0445 DESIGN AND TECHNOLOGY

0445/02

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2		Mark Scheme	Syllabus	
	_	IGCSE – May/June 2007	0445	
<b>A</b> 1	52 side octago	rcle 5 rectangle e equilateral triangle n 22 side on 30 side	Syllabus   1,70   er	Tidge.
	circle rectang equilate hexago	eral triangle	[1] [1] [1] [1]	[4]
A2	Accura L E T S Height Spacin	cy and Proportion of:	[1] [1] [1] [1] [1]	[6]
А3	regular cuts to evidend elliptica base a	height 141 ± 2mm coctagon square ce of plots for clock al clock face drawn nd tower in proportion pase to tower	[1] [1] [1] [1] [1] [1]	[7]
	Gradua	rection shadow ation of reality	[1] [1] [1]	[3]

[Total Section A: 25]

Page 3	Page 3 Mark Scheme Syllabus		
	IGCSE – May/June 2007	0445	

B4 (a)	on given	centre	lines
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				32		
Page 3			Mark Scheme	Syllabus	2 er	
			IGCSE – May/June 2007	0445	200	
(a)		on given centre lines			Call	Bridge com
	(i)	Nose Ø20 Ø20 Ø30	/ Ø30 disc	[	1] 1] 1] 1] 1]	[5]
			ht h	] ] ]	1] 1] 1] 1] 1]	[5]
	(ii)		: e evident s at 90° (4x1)		1] 4]	[5]
	(iii)	Disc Cons	agonal base: of Ø100 struction evident (Pr 1-2) ular pentagon (Pr 1-2)	[	1] 2] 2]	[5]
(b)	Met	hod c	int: of joining two fins (cross halving) (Pr 1-2) of joining fins to Ø30 tube (Pr 1-2)	]	2] 2] 1]	[5]

[Total: 25]

Pa	ge 4	Mark Scheme	Syllabus	er
		IGCSE – May/June 2007	0445	
B5 (a)	Overall h Top evid Inset of t Hidden of Base evid Inset of the	op in hidden detail letail of hole in top	Syllabus   OHA5   OHA5	ambridge
	PLAN Hexagor Regular	n correct size to scale hexagon awn for hole in top	[1] [1] [1]	[10]
(b)	Six sides Two regi	ement sides: s all same width as given (6×1) ular hexagons (2×1) Ø60 hole	[6] [2] [1]	

One end only

One flap

Fold in spacers (2×2)

[Total: 25]

[15]

[1] [4] [1]