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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.

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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.

Pa	age 2	Mark Scheme	Syllabus Syllabus	
		IGCSE – May/June 2007	0445	
\1	Ø46 circle		11 20	
	35 × 45 rect	angle	11	6.
		lateral triangle	[1]	19
	octagon 22		[1]	"
	hexagon 30	side	[1]	[5]
	circle		Syllabus er 0445 [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	
	rectangle		[1]	
	equilateral ti	riangle	[1]	
	hexagon		[1]	[4]
	0			• •
2	Accuracy ar	d Proportion of:		
	L		[1]	
	E		[1]	
	Т		[1]	
	S		[1]	
	Height		[1]	
	Spacing		[1]	[6]
3 (a)	Overall heig	ht 141 ± 2mm	[1]	
.o (u)	regular octa		[1]	
	cuts to squa	re	[1]	
	evidence of	plots for clock	[1]	
	elliptical cloo	ck face drawn	[1]	
		wer in proportion	[1]	
	slope base t	o tower	[1]	[7]
(h)	One directio	n chadaw	[1]	
(D)	Graduation	II SHAUUW	[1]	
	Quality of re	ality	[1] [1]	[3]
		anty	[']	[0]
			[Total Section A:	25]

Page 3	Mark Scheme	Syllabus	er
	IGCSE – May/June 2007	0445	
		5	2
(a) on give	en centre lines	Syllabus 0445 [1]	norio
(i) Ro	ocket body & nose cone:		3
No	ose cone	[1]	
	20 tube	[1]	
	20 / Ø30 disc	[1]	
	30 tube	[1]	
Sc	blid line to base of Ø30 tube	[1]	[5]
	il fins:		
	eight	[1]	
	idth	[1]	
	ngle	[1]	
	onstruction of ellipse	[1]	
U	utline of ellipse	[1]	[5]
(ii) Pla			
	rcle evident	[1]	
41	īns at 90° (4x1)	[4]	[5]
	entagonal base:		
	sc of Ø100	[1]	
	onstruction evident (Pr 1-2)	[2]	
Re	egular pentagon (Pr 1-2)	[2]	[5]
(b) Tailfin	icint		
(b) Tail fin		[2]	
	d of joining two fins (cross halving) (Pr 1-2) d of joining fins to Ø30 tube (Pr 1-2)	[2]	
Notes		[2] [1]	[5]
140163		[']	[3]
		[Tot	al: 25]
		•	-

Page 4	Mark Scheme	Syllabus	er
	IGCSE – May/June 2007	0445	2
(a) EV		Syllabus 0445 [1] [1] [1] [1]	amb.
	Il height to hexagon	[1]	19
	vident	[1]	
	of top in hidden detail	[1]	
	n detail of hole in top		
	evident	[1]	
	of base in hidden detail	[1]	
Projec	ted in line from plan	[1]	
PLAN			
	on correct size to scale	[1]	
	ar hexagon drawn far hala in tan	[1]	[10]
Circie	drawn for hole in top	[1]	[10]
(b) Devel	opment sides:		
	des all same width as given (6×1)	[6]	
	egular hexagons (2×1)	[2]	
	ith Ø60 hole	[1]	
	nd only	[1]	
	ו spacers (2×2)	[4]	
One fl	ар	[1]	[15]
			otal: 25]