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.



Р	age 2	Mark Scheme	Syllabus	Paper	
		IGCSE – May/June 2007	0445	:	2
A 1	Ø46 circl 35 × 45 r 52 side e octagon hexagon	ectangle quilateral triangle 22 side		[1] [1] [1] [1] [1]	[5]
	circle rectangle equilater hexagon	e al triangle		[1] [1] [1] [1]	[4]
A2	Accuracy L E T S Height Spacing	and Proportion of:		[1] [1] [1] [1] [1]	[6]
A3 (a	regular o cuts to so evidence elliptical base and			[1] [1] [1] [1] [1] [1]	[7]
(b	One dire Graduati Quality o			[1] [1] [1]	[3]

[Total Section A: 25]

Page 3	Mark Scheme	Syllabus	Paper	
	IGCSE – May/June 2007	0445	2	

B4 (a) on given centre lines

	(i)	Rocket body & nose cone: Nose cone Ø20 tube Ø20 / Ø30 disc Ø30 tube Solid line to base of Ø30 tube	[1] [1] [1] [1]	[5]
		Tail fins: Height Width Angle Construction of ellipse Outline of ellipse	[1] [1] [1] [1] [1]	[5]
	(ii)	Plan: Circle evident 4 fins at 90° (4x1)	[1] [4]	[5]
	(iii)	Pentagonal base: Disc of Ø100 Construction evident (Pr 1-2) Regular pentagon (Pr 1-2)	[1] [2] [2]	[5]
(b)	Met	fin joint: thod of joining two fins (cross halving) (Pr 1-2) thod of joining fins to Ø30 tube (Pr 1-2) es	[2] [2] [1]	[5]

[Total: 25]

Page 4		Mark Scheme	Syllabus	Paper	
		IGCSE – May/June 2007	0445	2	
B5 (a)	Overall h Top evid Inset of t Hidden of Base evid	op in hidden detail letail of hole in top		[1] [1] [1] [1] [1]	
	Projected PLAN Hexagor Regular	d in line from plan correct size to scale hexagon awn for hole in top		[1] [1] [1] [1] [1]	[10]
(b)	Six sides Two regules Hex with One end	pacers (2×2)		[6] [2] [1] [1] [4]	[15]

[Total: 25]