UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/21 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.

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CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2	Mark Scheme: Teachers' version	Syllabus	r
×	IGCSE – October/November 2010	0445	
1 Accuracy and	proportion of:	Syllabus 0445 (1) (1) (1) (1) (1) (1) (1) (1) (1)	an.
V	1 · 1 · · · ·	(1)	Oni
A		(1)	3
S		(1)	
Spacing		(1)	
Height		(1)	[6]
		[To	otal: 6]
2 (a) Octagon			
Outline (Regular	3 sides)	(1)	[2]
Regular		(1)	[2]
	- correct size	(1)	
Nose R	e (width1 – O/L 1) I0	(2) (1)	
	t R30 (height 1- arc 1)	(2)	
Angle on	fuselage 30°	(1)	[7]
		[To	otal: 9]
3 (a) 66 centre	es a la companya de l	(1)	
Ø56 equ	idistant apart	(1)	
	circle drawn ×2	(2)	
	drawn from Ø56 centre ×2 drawn ×2	(2) (2)	[8]
,		(-)	[0]
(b) Suitable	cut / triangular slit / insert 0–2 pr		[2]
		[Tot	tal: 10]
4 (a) Plan and			
Plan lenç Plan wid		(1)	
Thicknes		(1) (1)	
Thicknes	s sides 2	(1)	
Thicknes	s bottom 2	(1)	[5]
	ositions of 4 holes		
	s – correct 4 spaces	(4)	
2 norizor	itals – correct 4 spaces	(4)	
	osition on plan		
A circle r Ø80 to s	epresenting top of cup	(1) (1)	
	epresenting bottom of cup	(1)	
200 CILC	e (Ø40 – thickness) to scale	(1)	
Correct	osition on plan	(1)	[13]

Page 3	Mark Scheme: Teachers' version	Syllabus	N.
	IGCSE – October/November 2010	0445	
Ø80 proj Ø40 proj		Syllabus 0445 (1) (1) (1) (1)	anbridge
Size Ø3 In one of	ect size hole needed in top 0 +/- 1 mm 3 spare positions e of projection 0–2 pr	(1) (1) (2)	[4]
		[To	tal: 25]
2 largest	awn	(1) (1) (4) (2) (1)	[9]
Appropri Suitable Informati Labels e	ensional chart ate method (e.g. bar) scale selected on correctly plotted ×5 vident nhancement	(1) (1) (5) (1) (1)	[9]
Symbol t Symbol t Freight la Freight a	ares for annual report o match freight pr 1–2 o match private pr 1–2 arger than private pprox $2.5 \times larger$ than private nhancement	(2) (2) (1) (1) (1)	[7]