UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## www.papaCambridge.com MARK SCHEME for the October/November 2010 question paper

## 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 Syllabus	
	IGCSE – October/November 2010	0445 23	
1 Accuracy and	d proportion of:	Syllabus 0445 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	×
V A		(1)	na
L		(1)	0
S		(1)	
Spacing Height		(1)	[6]
		[Tota	
		liota	1. 0]
2 (a) Octagon			
Outline (	8 sides)	(1)	101
Regular		(1)	[2]
(b) Triangle	– correct size	(1)	
	e (width1 – O/L 1)	(2)	
Nose R Quadrar	t R30 (height 1- arc 1)	(1) (2)	
	n fuselage 30°	(1)	[7]
		[Tota	l: 9]
<b>3 (a)</b> 66 centro Ø56 equ	es idistant apart	(1) (1)	
Ø56 par	t circle drawn ×2	(2)	
	drawn from Ø56 centre ×2	(2)	101
Arc R40	drawn ×2	(2)	[8]
(b) Suitable	cut / triangular slit / insert 0–2 pr		[2]
		[Total:	10]
4 (a) Plan and	IFF		
Plan len	gth 95	(1)	
Plan wid Thicknes		(1) (1)	
Thicknes	ss sides 2	(1)	
Thicknes	ss bottom 2	(1)	[5]
(b) Centre r	ositions of 4 holes		
2 vertica	ls – correct 4 spaces	(4)	
2 horizoi	ntals – correct 4 spaces	(4)	
	osition on plan		
A circle ı Ø80 to s	epresenting top of cup cale	(1) (1)	
	epresenting bottom of cup le (Ø40 – thickness) to scale	(1) (1)	
Correct	position 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]
Appropria 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	ores for annual report o match freight pr 1–2 o match private pr 1–2 arger than private pprox 2.5 × larger than private nhancement	(2) (2) (1) (1) (1)	[7]