UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/22

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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

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.

	Pag	e 2 Ma	rk Scheme: Teachers' version	Syllabus	Pape	er
		IGO	CSE – October/November 2010	0445	22	
A 1	Outsi Outsi Diago 6 pet 6 pet Stem	als to correct size o	50 side		(1) (1) (1) (1) (1) (1) (1) (1) (1)	[9] otal: 9]
					[10	itai. 9]
A2		plete rectangle to s racy and proportior			(1) (1)	
	R S				(1) (1)	
	Spac	_			(1)	[0]
	Heigl	nı			(1)	[6]
					[To	otal: 6]
А3	1	Curved top Two arcs (similar si: Two arcs symmetric			(1) (1) (1)	[3]
	. ´ E N 3	Plan +/- 1 mm Base correct – 80 s Neck – 40 square h 3 squares concentri Petal top – 58 squa	idden detail c		(1) (1) (1) (1)	[4]
	L	Side view Length of long side Length of petal Overall height	80 20 93 +/-2		(1) (1) (1)	[3]
					[Tot	al: 10]
B4	`	Plan and F. E Plan length Plan width Thickness top Thickness sides Thickness bottom	92.5 92.5 2 mm 2 mm 2 mm		(1) (1) (1) (1) (1)	[5]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – October/November 2010	0445	2	22
	(b)		ositions of 4 holes			
			ls – correct spaces		(4)	
		2 horizor	ntals – correct spaces		(4)	
			in position on plan			
			epresenting top of plant pot		(1)	
		Ø70 to s	cale		(1)	
			epresenting bottom of plant pot		(1)	
		Ø46 circl	e (Ø50 – thickness) to scale		(1)	
		Correct p	position on plan		(1)	[13]
	, ,	D/ /				
	(c)		t in position on front elevation		(4)	
		Ø70 proj			(1)	
		Ø50 proj			(1)	[0]
		Height 5	from top base to p/ll top		(1)	[3]
	(ما/	The corr	ant size halo pandad in tan			
	(a)		ect size hole needed in top		(1)	
			3 +/- 2mm (Ø66 to scale)		(1)	
			3 spare positions		(1)	[41
		Evidence	e of projection 0–2 pr		(2)	[4]
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						กรลเ วรเ
					Lı	otal: 25]
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В5	(a)	Pie chart			-	otai: 25j
В5	(a)		awn		(1)	otai: 25j
В5	(a)	Circle dra	awn nto 5		-	otai: 25j
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B5	(a)	Circle dra Divided i Correct of 750/900/	awn nto 5 divisions 450/1200/300		(1)	otai: 25]
B5	(a)	Circle dra Divided i Correct of 750/900/ 75° / 90°	awn nto 5 divisions		(1) (1) (4)	
B5	(a)	Circle dra Divided i Correct of 750/900/ 75° / 90°	awn nto 5 divisions 450/1200/300 / 45° / 120° / 30° (max4)		(1)	otal: 25]
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B5		Circle dra Divided i Correct of 750/900/ 75° / 90° 2 largest	awn nto 5 divisions 450/1200/300 / 45° / 120° / 30° (max4) sectors – clear labels		(1) (1) (4)	
B5		Circle dra Divided i Correct of 750/900/ 75° / 90° 2 largest Two dim Appropri	awn nto 5 divisions 450/1200/300 / 45° / 120° / 30° (max4) sectors – clear labels ensional chart		(1) (1) (4) (2)	
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[Total: 25]