MMM. Aremed Abers. Com

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

0445/23

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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Page		Mark Scheme: Teachers' version	Syllabus	Paper	-
	IC	GCSE – October/November 2010	0445	23	
Outsid Outsid Diagor 6 petal 6 petal Stem	e hex any size le hex correct si nals evident ls ls to correct size	ze 50 side		(1) (1) (1) (1) (1) (1) (1) (1)	[9]
				[Tot	al: 9]
A2 Complete rectangle to size 160 long Accuracy and proportion of:					
R				(1)	
_	na				
Height					[6]
				[Tot	al: 6]
Tv	vo arcs (similar			(1) (1) (1)	[3]
Ba Ne 3 :	ase correct – 80 eck – 40 square squares concen	hidden detail tric		(1) (1) (1) (1)	[4]
Le Le	ength of long sid ength of petal	e 80 20 93 +/-2		(1) (1) (1)	[3]
				[Tota	l: 10]
Pla Pla Th Th	an length an width nickness top nickness sides	92.5 92.5 2 mm 2 mm 2 mm		(1) (1) (1) (1) (1)	[5]
	Centre Outsid Outsid Diagon 6 peta 6 peta Stem Leaf: Complete Com	Centre circle to size Ø Outside hex any size Outside hex correct size Diagonals evident 6 petals 6 petals to correct size Stem Leaf: R35 quadrant Chord Complete rectangle to Accuracy and proportic E R S Spacing Height (a) Curved top Two arcs (similar Two arcs symmet (b) Plan +/- 1 mm Base correct – 80 Neck – 40 square 3 squares concen Petal top – 58 squ Side view Length of long sid Length of petal Overall height (a) Plan and F. E Plan length Plan width Thickness top Thickness sides	Centre circle to size Ø 40 Outside hex any size Outside hex correct size 50 side Diagonals evident 6 petals 6 petals to correct size of O/L Stem Leaf: R35 quadrant Chord Complete rectangle to size 160 long Accuracy and proportion of: E R S Spacing Height (a) Curved top Two arcs (similar size to given) Two arcs symmetrical & constructed (b) Plan +/- 1 mm Base correct – 80 square Neck – 40 square hidden detail 3 squares concentric Petal top – 58 square Side view Length of long side 80 Length of petal 20 Overall height 93 +/-2 (a) Plan and F. E Plan length 92.5 Plan width 92.5 Plan width 92.5 Thickness top 2 mm Thickness sides 2 mm	Centre circle to size Ø 40 Outside hex any size Outside hex correct size 50 side Diagonals evident 6 petals 6 petals to correct size of O/L Stem Leaf: R35 quadrant Chord Complete rectangle to size 160 long Accuracy and proportion of: E R S Spacing Height (a) Curved top Two arcs (similar size to given) Two arcs symmetrical & constructed (b) Plan +/- 1 mm Base correct – 80 square Neck – 40 square hidden detail 3 squares concentric Petal top – 58 square Side view Length of long side 80 Length of petal 20 Overall height 93 +/-2 (a) Plan and F. E Plan length 92.5 Plan width 92.5 Plan width 92.5 Thickness top 2 mm Thickness top 2 mm Thickness sides 2 mm	IGCSE - October/November 2010 0445 23

	- J	IGCSE – October/November 2010	0445	23
(b)	2 vertica	ositions of 4 holes ls – correct spaces ntals – correct spaces	(4	1)
	Plant po	t in position on plan representing top of plant pot	(1 (1	1)
	A circle i	representing bottom of plant pot le (Ø50 – thickness) to scale	(1 (1)
	Correct	position on plan	(1	[13]
(c)	Ø70 proj Ø50 proj		(1 (1 (1)
(d)	Size Ø3 In one of	ect size hole needed in top 3 +/- 2mm (Ø66 to scale) f 3 spare positions e of projection 0–2 pr	(1 (1 (2)
B5 (a)	Pie char Circle dr Divided i	awn nto 5 divisions	(1 (1]
	75° / 90°	/450/1200/300 / / 45° / 120° / 30° (max4) : sectors – clear labels	(2	
(b)	Appropri Suitable Informat Labels e	ensional chart ate method (e.g. bar) scale selected ion correctly plotted ×5 vident nhancement	(1 (1 (5 (1	5)
(c)	Symbol to Symbol to Garden p Garden p Labels e	ures for annual report to match garden plants pr 1–2 to match cut flowers pr 1–2 colants larger than cut flowers colants approx 2.5 × larger than cut flowers vident nhancement	(2 (2 (1 (1 (1	2)))

Mark Scheme: Teachers' version

Syllabus

Paper

Page 3

[Total: 25]