

Cambridge Assessment International Education Cambridge International General Certificate of Secondary Education

DESIGN AND TECHNOLOGY

0445/22 October/November 2017

Paper 2 Graphic Products MARK SCHEME Maximum Mark: 50

Published

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Section A

Question	Answer	Marks
A1(a)(i)	Outline of the sheet of paper drawn [1] Outline correct to overlay (148 mm × 105 mm) [1]	2
A1(a)(ii)	Two fold lines added [1] Fold lines correct to overlay or candidate outline of paper [1] Fold lines shown by a recognised convention (label or type of line) [1]	3
A1(a)(iii)	Some thick and thin lines added to the drawing of the table [1] Thick and thin line technique correctly added to the drawing of the table [1]	2
A1(b)	Sketch shows the table raised or indented [1] Notes indicate the drawing has been pushed up or pushed into the paper	2
A2(a)	 20 mm circle Any ellipse added [1] Ellipse to correct size [1] Ellipse correct to overlay [1] 50 mm × 30 mm text box Rectangle correct to overlay (size and in isometric) [1] 	4
A2(b)	Acceptable answers include: Size [1] Colour [1] Font [1] Typeface [1] Style – underlined, bold, italic [1] [1] + [1]	Max 2
A3(a)	Top right vertical completed [1] Fold line completed to convention [1] Bottom half of closure correct to overlay [1] Any second slot added [1] Euroslot correct orientation [1] Euroslot correct to overlay [1]	6
A3(b)	Three dimensional bar chart drawn [1] Three bars labelled (small, medium and large) [1] Use of a scale clearly evident (vertical line) [1] Sales correctly plotted to the scale [1]	4

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Section B

Question	Answer	Marks
B4(a)(i)	Any second ear added to RHS [1] Second ear correct to overlay [1] Vertical and horizontal lines added [1]	3
B4(a)(ii)	Left half of glue tab added to overlay [1] Fold line added [1]	4
	Tail of the correct shape added in the given box [1] Tail touches bottom, left and top edges of given box [1]	
B4(a)(iii)	Base the correct length [1] Vertical line the correct height [1] Diagonal line correct to candidate solution [1]	3
B4(b)	Development made from five connected surfaces [1] Back a rectangular shape [1] with two ears and a tail box [1] Rectangular base added to the bottom of the back [1] Rectangular front joined to the base [1] Two triangle shaped surfaces added to the base or front [1] + [1] Two triangles in the correct orientation [1] Five glue tabs added to hold the box together [1] Fold lines labelled or shown using a standard convention [1] * There are at least two different solutions to this development (net). 1 Folding out from the base (star shape). 2 Long strip with triangles folding out from the base or front (not the back).	10
B4(c)(i)	Shape [1] Memory [1] Alloy [1]	3
B4(c)(ii)	Acceptable answers include: Easy to bend [1] Will return to original shape [1] Safe material [1] [1] + [1]	Max 2

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Question	Answer	Marks
B5(a)	Two layers (vertical or horizontal shown) [1] The best layer clearly has a thin top layer [1], thin bottom layer [1] and thicker middle layer [1] Middle layer rendered to look like foam [1]	9
	Two layers (vertical or horizontal shown) [1] One layer rendered to look like Styrofoam [1] Second layer rendered to look like wood and has some grain or matching side and end grain [1] + [1]	
B5(b)(i)	Acceptable reasons include: Available in big blocks so no need to stick layers together [1] Easy to cut to shape [1] Easy to add surface details [1] Accept 'Lightweight' [1] [1] + [1]	Max 2
B5(b)(ii)	Acceptable answers include: Double sided tape [1] PVA [1] Do not accept – contact adhesive, acetate adhesive or hot melt	1
B5(c)	Isometric block drawn (regardless of number of layers) [1] Isometric block has five layers [1] Overall height correct [1] Layer one lined in [1] Layer two rotated [1] Layer two correct to overlay [1] Layer three completed to overlay [1] Layer four rotated [1] Layer four correct to overlay [1] Layer five completed to overlay [1]	10
B5(d)	Sketches show a method such as labels, drawing, cutting out [1] Notes or labels name the method [1] Sketch shows method being used on a block [1]	3