

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

ion 0445/02

For Examination from 2015

1 hour

DESIGN AND TECHNOLOGY

Paper 2 Graphic Products
SPECIMEN MARK SCHEME

MAXIMUM MARK: 50



A1	(a)	Octagon Constructional square 80 A/F Centre determined Arcs drawn Side drawn to arc/square plot	(2) (1) (1) (1)	DaCambridge
	(b)	Semi-circle Semi-circle to length of side	(1)	[1]
	(c)	Triangles Two triangles equilateral	(2)	[2] [Total: 8]
A2	(a)	lettering Accuracy and proportion of: K Spacing Height border horizontal Repeat angle	(1) (1) (1) (1) (1)	[3] [2]
	(b)	(i) digital camera / scanner	(1)	[1]
		(ii) readily retrieved, can be scaled up/down printed out when needed	(1)	[1] [Total: 7]
A3	(a)	Isometric rectangular base Top rectangle 40 tall In line with base Central pillar 20 × 30 Semi – octagon top evident Construction of octagon evident	(2) (1) (1) (1) (1) (1)	[7]
	(b)	Pencil tone to rectangle	(1)	[1]
	(c)	(i) the first trial version	(1)	[1]
		(ii) hot wire cutter	(1)	[1]
				[Total: 10]

B4	(a)	Development Extra sides (7) shown in correct position 2 side flaps Radius on side flap Side flaps 45 long Tuck-in flap 10 Tuck-in flaps angled	(7) (1) (1) (1) (1) (1)	ORCANDRIDGE [12]
	(b)	Arrow-tabs Symmetrical (1) Stand off (1) Neck (1) Slot size to match neck Min 4 arrow-tabs shown 4 × 1	(3) (1) (4)	[8]
	(c)	(i) Die stamping / punching	(1)	[1]
		(ii) creasing	(1)	[1]
	(d)	three (3)	(1)	[1]
	(e)	Halving slots or similar 0–2 PR (repeat of arrow tab/slot = 0)	(2)	[2]
				[Total: 25]
B5	(a)	Front view Depth of top 40 2 mm thickness to top surface & base 2 mm thickness to sides	(1) (1) (1)	[3]
	(b)	Hole positions and cone C Centre line at 50 horizontally Centre of one hole 50 in from RHS Centre of one hole 50 in from LHS Centre line projected to F.E. Cone in position C on PLAN Ø80 circle representing top of cone	(1) (1) (1) (1) (1) (1)	[6]
	(c)	Ø10 evident in base on FE 60° included angle drawn 60° included angle drawn through Ø10 Ø80 projected from plan 2 × 1 Cone complete (2 × sides = 2) (top = 1) Centre line evident	(1) (1) (1) (2) (3) (1)	[9]

www.PapaCambridge.com (1) (1) (d) Hole size Ø56 +/-2 mm In remaining position Evidence of projection 0-2 pr (2) (e) Use of: Compass/circle cutter Plotter cutter, single hole punch (2) (f) Use of: die stamping/cutting machine (1) [1]

[Total: 25]