UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2011 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.

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A1 Circle Ø40 (1)

Half Hexagon Neckline
Half hex any size (1)
Correct size to fit neckline width (1)   [2]

Half Octagon
Half Octagon any size (1)
Half octagon correct size (1)
In correct position below belt (1)   [3]

Missing detail
Arm parallel sides (1)
Arm end at correct angle (1)
Dress outline – mirror of LHS (1)   [3]

[Total: 9]

A2 (a) *Remaining part of signboard*
Length (1)
Angle (60°) (1)

(b) *Accuracy and proportion of:*
S (1)
H (1)
Spacing (1)
Height (1)   [6]

[Total: 6]

A3 (a) 135 high square column central to base (1)
Ø50 top (1)
plots for circle evident (1)
60° cut (1)
20 × 25 rebate (1)
Square base 100 × 100 (1)
Base 20 thick (1)   [7]

(b) *Thick line evident on:*
rear 60° angled cut; (1)
horizontal end of cut. (1)
Thin line evident on remaining edges. (1)   [3]

[Total: 10]

B4 *To a scale of 1:2*

(a) O/A height 290 (145) (1)
O/A width 260 + 15 + 15 (145) (1)
Front and back 160 wide 2 × 1 (2)
Two sides 50 wide 2 × 1 (2)
Sides in correct order – top to bottom
    120 + 50 + 120 (no flap) (1)
Top fold over indicated on sides (1)
Top fold line correct convention (1)
Side to back fold line correct convention (1)
Top fold line 15 deep (1)
Long glue flap to side (1)

Bottom of bag 160 × 50 (1)
Two glue flaps on bottom (2 × 1) (2)   **[15]**

(b) *Printing of* JEWELLERY BOX
Correct face (1)
Correct orientation (1)
Central position on face (1)
Height of letters (1)
Width of letters (1)   **[5]**

(c) a possible method shown 0–2 Pr (2)
method used securely attaches (1)
Quality of communication 0–2 Pr (2)   **[5]**

                                                     [Total: 25]

B5 (a) *Front Elevation*
Correct view from **A** (1)
Base 50 wide (1)
Base 10 thick (1)
Hidden detail from 3 wide tenon (1)
Upright central on base (1)
Upright 3 thick (1)
Upright 25 high from base (1)
upright horizontal under band (1)
Band 30 wide (1)
Band 20 high (1)
Band on left of upright (1)
Hidden detail of inner band (×2) (2)   **[13]**

(b) *Plan*
   R15 on band ends (1)
   Band 3 thick (1)
   Band off-set from centre (1)
   R15 ends at 45 centres (1)
   Upright shown under band (1)
   Elliptical base evident (1)
   Construction of ellipse evident (1)
   Ellipse 80 × 50 (1)   [8]

(c) *End Elevation*
   Band 20 high (1)
   Band 75 long (1)
   Band central to upright (1)
   Upright 35 wide (1)   [4]

[Total: 25]