

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

**MARK SCHEME for the October/November 2011**  
**for the guidance of teachers**

## **0445 DESIGN AND TECHNOLOGY**

**0445/21**

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*

- Half hex any size (1)
- Correct size to fit shirt width (1)

*Half Octagon*

- Half octagon any size (1)
- Half octagon correct size (1)
- In correct position on shirt (1)

[3]

*Missing detail*

- Arm parallel sides (1)
- Arm end at correct angle (1)
- Collar – mirror of LHS (1)

[3]

**[Total: 9]**

**A2 (a)** *Remaining part of signboard*

- Length (1)
- Angle (60°) (1)

[2]

**(b)** *Accuracy and proportion of:*

- R** (1)
- L** (1)
- Spacing (1)
- Height (1)

[4]

**[Total: 6]**

**A3 (a)** Isometric 50 SQ column (1)

- 160 high column (1)
- 45° cut (1)
- 60° cut (1)
- 20 x 25 rebate (1)
- Circular base Ø100 approx (1)
- Base 20 thick (1)

[7]

**(b)** *Thick line evident on:*

- top of rebate; (1)
- end of lower rebate; (1)
- rear upright (1)

[3]

**[Total: 10]**

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**B4** *To scale 1:2*

- (a) O/A height 160 + 15 (1)  
 O/A length 340 + 15 (1)  
 Front & back 120 wide 2 x 1 (2)  
 Two sides 50 wide 2 x 1 (2)  
 Sides in correct order  
     50 + 120 + 50 + 120 + flap (1)  
 Top fold over indicated (1)  
 Top fold line correct convention (1)  
 Top fold line 15 deep (1)  
 One long glue flap on RHS (1)
- Bottom of bag 120 x 50 (1)  
 Three glue flaps on bottom (3 x 1) (3) [15]
- (b) *Printing of FASHION WORLD*  
 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** (*full size*) (1)  
 Base 80 wide (1)  
 Base 10 thick (1)  
 Hidden detail from 3 wide tenon (1)  
 Upright central on base (1)  
 Upright 3 thick (1)  
 Upright 55 high from base (1)  
 Top of upright level with top of band (1)  
 Band 20 wide (1)  
 Band 30 high (1)  
 Band on left of upright (1)  
 Hidden detail of inner band (x 2) (2) [13]

**(b)** *Plan*

- Band 20 wide (1)  
 Band 75 long (1)  
 Band off-set from centre (1)  
 Band central to upright (1)  
 Upright shown vertical (1)  
 Elliptical base evident (1)  
 Construction of ellipse evident (1)  
 Ellipse 80 x 50 (1) [8]

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(c) *End Elevation*

R15 on band ends (1)

Band 3 thick (1)

R15 ends at 45 centres (1)

Upright 35 wide (1)