## MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

## 0445 DESIGN AND TECHNOLOGY

0445/22 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.

- CIE will not enter into discussions or correspondence in connection with these mark schemes.

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A1 Centre circle to size $\varnothing 40$
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
(b) Centre positions of 4 holes

2 verticals - correct spaces
2 horizontals - correct spaces
Plant pot in position on plan
A circle representing top of plant pot
$\varnothing 70$ to scale
A circle representing bottom of plant pot
$\varnothing 46$ circle ( $\varnothing 50$ - thickness) to scale
Correct position on plan
(c) Plant pot in position on front elevation
$\varnothing 70$ projected
$\varnothing 50$ projected
Height 50 from top base to $\mathrm{p} / \mathrm{Il}$ top
(d) The correct size hole needed in top

Size $\varnothing 33+/-2 \mathrm{~mm}$ ( $\varnothing 66$ to scale)
In one of 3 spare positions
Evidence of projection 0-2 pr

B5 (a) Pie chart
Circle drawn
Divided into 5
Correct divisions
750/900/450/1200/300
$75^{\circ} / 90^{\circ} / 45^{\circ} / 120^{\circ} / 30^{\circ}(\max 4)$
(4)

2 largest sectors - clear labels
(b) Two dimensional chart

Appropriate method (e.g. bar)
Suitable scale selected
Information correctly plotted $\times 5$
Labels evident
Colour enhancement
(c) 2009 figures for annual report

Symbol to match garden plants pr 1-2
Symbol to match cut flowers pr 1-2
Garden plants larger than cut flowers

