

MARK SCHEME for the October/November 2006 question paper

0418 INFORMATION TECHNOLOGY

0418/03 Paper 3, maximum raw mark 72

This mark scheme is published as an aid to teachers and students, 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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

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

CIE is publishing the mark schemes for the October/November 2006 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Formulae: Countif – number of Kitchen
Countif function used correctly 1 mark
Countif – number of Household
Countif function used correctly 1 mark

Alignment not important
 Row/Column may not be the same as this example
 Do not penalise the use of named cells/ranges or column reference

Information Table	
Manager's Discount M	0.06
Clearance Discount C	0.03
Number of sales	
Kitchen	=COUNTIF(\$D\$9:\$D\$20,A5)
Household	=COUNTIF(\$D\$9:\$D\$20,A6)

Formulae:
 If Offer=M then use content of named cell 'six', else used content of named cell 'three', multiplied by the content of Price.
IF function used correctly to achieve the right result 1 mark
Named cell range 'six' multiplied by price 1 mark
Named cell range 'three' used multiplied by price 1 mark

Alignment not important
 Row/Column may not be the same as this example

Formula:
 Value = Price - Discount
Value formula correct 1 mark
 Alignment not important

Date	Product	Offer	Type	Price	Discount	Value
38763					=IF(C9="M",E9*six,E9*three)	=E9-F9
38800					=IF(C10="M",E10*six,E10*three)	=E10-F10
38816					=IF(C11="M",E11*six,E11*three)	=E11-F11
38834					=IF(C12="M",E12*six,E12*three)	=E12-F12
38867					=IF(C13="M",E13*six,E13*three)	=E13-F13
38876					=IF(C14="M",E14*six,E14*three)	=E14-F14
38919					=IF(C15="M",E15*six,E15*three)	=E15-F15
38919					=IF(C16="M",E16*six,E16*three)	=E16-F16
38924					=IF(C17="M",E17*six,E17*three)	=E17-F17
38930					=IF(C18="M",E18*six,E18*three)	=E18-F18
38943					=IF(C19="M",E19*six,E19*three)	=E19-F19
38954					=IF(C20="M",E20*six,E20*three)	=E20-F20

Replication:
Both formulae replicated correctly 1 mark

Layout - Data model created as shown to include date, labels and data 1 mark
All of the formulae and labels are fully visible in cells 1 mark
Single page landscape orientation 1 mark

Format Manager's Discount and Clearance Discount as % with 0 dp
2 Cells in Information Table formatted to % Integer values as shown **1 mark**

Information Table		
Manager's Discount	M	6%
Clearance Discount	C	3%
Number of sales		
Kitchen		7
Household		5

Format the results in the Price, Discount and Value columns to 2dp displaying \$
All 3 columns formatted to \$ and 2dp **1 mark**

Date	Product	Offer	Type	Price	Discount	Value
15-Feb-2006	Washer	M	Kitchen	\$350.00	\$21.00	\$329.00
24-Mar-2006	Iron	M	Kitchen	\$25.00	\$1.50	\$23.50
9-Apr-2006	Television	C	Household	\$1,050.00	\$31.50	\$1,018.50
27-Apr-2006	Dryer	C	Kitchen	\$150.00	\$4.50	\$145.50
30-May-2006	Kettle	C	Kitchen	\$15.00	\$0.45	\$14.55
8-Jun-2006	Radio	C	Household	\$34.00	\$1.02	\$32.98
21-Jul-2006	Washer	M	Kitchen	\$550.00	\$33.00	\$517.00
21-Jul-2006	Oven	M	Kitchen	\$650.00	\$39.00	\$611.00
26-Jul-2006	Washer	C	Kitchen	\$421.00	\$12.63	\$408.37
1-Aug-2006	Television	C	Household	\$624.00	\$18.72	\$605.28
14-Aug-2006	Radio	C	Household	\$28.50	\$0.85	\$27.65
25-Aug-2006	Television	M	Household	\$624.00	\$37.44	\$586.56

Test data:
All data must be 100% accurate. Date must contain month in words. Accept dd/mmm/yyyy or mmm/dd/yyyy formats.
Data added 100% accurately **4 marks**
deduct 1 mark per error

Page orientation not specified
All data fits on a single page **1 mark**
All data and values are visible **1 mark**

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Searching:
Type equals Kitchen
 Only these seven rows should be visible
Correct data extracted 2 marks
 All data must be visible

Date	Product	Offer	Type	Price	Discount	Value
15-Feb-2006	Washer	M	Kitchen	\$350.00	\$21.00	\$329.00
24-Mar-2006	Iron	M	Kitchen	\$25.00	\$1.50	\$23.50
27-Apr-2006	Dryer	C	Kitchen	\$150.00	\$4.50	\$145.50
30-May-2006	Kettle	C	Kitchen	\$15.00	\$0.45	\$14.55
21-Jul-2006	Washer	M	Kitchen	\$550.00	\$33.00	\$517.00
21-Jul-2006	Oven	M	Kitchen	\$650.00	\$39.00	\$611.00
26-Jul-2006	Washer	C	Kitchen	\$421.00	\$12.63	\$408.37

Searching:
Date less than 01/07/06 and Value is less than 30
 Only these two rows should be visible
Correct data extracted 2 marks
 All data must be visible

Date	Product	Offer	Type	Price	Discount	Value
24-Mar-2006	Iron	M	Kitchen	\$25.00	\$1.50	\$23.50
30-May-2006	Kettle	C	Kitchen	\$15.00	\$0.45	\$14.55

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Printout of Stylesheet should be included:

h1 { color: #000000; font-family: Charlesworth; font-size: 45pt; text-align: Center;
font-weight: bold }

h2 { color: #0000FF; font-family: Arial; font-size: 18pt; font-style: italic;
font-weight: bold; text-align: left }

h3 { color: #003399; font-family: Arial; font-size: 14pt; text-align: left }

<i>Correct style created for h1</i>	1 mark
<i>Correct style created for h2</i>	1 mark
<i>Correct style created for h3</i>	1 mark
<i>Printout of style sheet included – must be a stylesheet – not a webpage</i>	1 mark
Ensure the candidate's name is printed	

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Heading – Style h1
 From stylesheet, black, serif font, largest text size, bold, centre aligned. Accept initial caps or upper case (not lower case C).
Heading 100% correct and h1 used as specified 1 mark

Table contains SWAA6INT.HTM
Table created with 6 rows and 2 columns 1 mark
Merge columns 1 and 2 in the 1st row 1 mark
Correct text appears in each cell 1 mark

THE COLLEGE

Departments

- Business/IT
- Catering
- Art & Design
- Science
- Technology


Opening hours

Mon - Thurs 9 am - 9 pm
 Fri & Sat 10 am - 4 pm

General

- Enrolment
- Admissions
- Student guidance
- Fees & finance
- Library
- Flexible learning

Contact details

	
Business/IT	The courses offered here are: Administration, Accounting, Computer Literacy, Export Management, Information Technology, Marketing, Management, Programming, Secretarial, Travel & Tourism, Webpage Creation and Word Processing.
Catering	The courses offered here are: Accredited Diplomas in Patisserie & Confectionery, Larder, Bar Skills, Counter Service, Off-Licensed Supervision and Reservations.
Art & Design	The courses offered here are: Art Training, Photography, Art/Drawings, Authoring, Making Sense of the Media, Design and Installation Art & Events.
Science	The courses offered here are: Animal Care, Dog Grooming, Dog Training, Environmental Conservation, Floristry & Flower Arranging, Agriculture, Horticulture, Forestry, Horse Studies, Caring for Animals, Landscape Management and Zoology & Behavioural Sciences. This section includes courses such as Science, Laboratory Technician and Process Operations.
Technology	The courses offered here are: Brickwork, Carpentry/Joinery, Bench Joinery, Machine Woodwork, Furniture Craft, Painting and Decorating, Marble and Graining, Installation Work and Regulations, Gas Safety, Electrical and Electronic Engineering, Security Systems, Electronic Servicing, Control Systems, Basic Engineering Competences, Basic Mechanical Skills, Programmable Logic Controllers, Engineering Maintenance Systems Competences and Mechanical Power Transmissions.

SWAA6HOM.JPG in this cell
 Resized to 150 pixels high **not** maintaining aspect ratio.
Image inserted 1 mark
In correct position 1 mark
Image fully visible 1 mark

Menu contains SWAA6MEN.TXT - Style h2
Menu added correct place 1 mark
Style h2 1 mark

Style h3 – applied correctly to table
 From stylesheet, Dark Blue, sans-serif font, smallest text size, left aligned
h3 applied to correct text 1 mark

Style h2 – applied correctly to table
 From stylesheet, Bright Blue, sans-serif font, bold, italic and middle text size, left aligned
h2 applied to correct text 1 mark

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All links must be relative, no credit will be given for absolute references.

HTML code is likely to vary greatly from this example – only check for required elements.

```

<html>

<title>The College IVC</title>
<link rel="stylesheet" type="text/css" href="col.css">
</head>

<body>

<h1>THE COLLEGE</h1>
<div align="right">
  <table border="6" width="76%" align="right">
    <tr>
      <td width="80%" colspan="2">
        <p align="center"></p>
      </td>
      <td width="17%">
        <h2>Business/IT</h2>
      </td>
    </tr>

    <tr>
      <td>
        <h3>The courses offered here are: Administration, Accounting, Call
        Centre Techniques, Computer Literacy, Export Management, Information
        Technology, Internet Technologies, Marketing, Management, &nbsp;
        Programming, Secretarial Procedures, Travel & Tourism, Webpage
        Creation and Word Processing.</h3>
      </td>
    </tr>

    <tr>
      <td>
        <h2>Catering</h2>
      </td>
      <td>
        <h3>The courses offered here are: Accommodation & Reception,
        Advanced Culinary Diplomas in Patisserie & Confectionery, Advanced
        Culinary Diploma in Kitchen & Larder, Bar Skills, Counter Service,
        Food & Drink Service, Food Preparation & Cookery, Off-Licensed
        Supervision and Restaurant Supervision.</h3>
      </td>
    </tr>

    <tr>
      <td>
        <h2>Art & Design</h2>
      </td>
    </tr>

    <tr>
      <td>
        <h3>The courses offered here are: &nbsp; Art & Design, Art & Crafts, Film
        Studies, Apple Macintosh Training, Photography, Art/Drawing & Painting,
        Ceramics, Media Studies, Multimedia Authoring, Making Sense of the Media,
        Industrial Design, Product Design, Transport Design&nbsp; and Installation Art
        & Events.
      </h3>
    </td>
  </tr>

  <tr>
    <td>
      <h2>Science</h2>
    </td>
    <td>
      <h3>The courses offered here are: &nbsp; Animal Care, Dog Grooming, Dog
      Training, Environmental Conservation, Floristry & Flower Arranging,
      Agriculture, Horticulture, Forestry, Horse Studies, Caring for Animals,

```

External stylesheet attached & applied 1 mark
Any name can be used. Stylesheet must not be overridden.

Table border set to 6 point 1 mark

SWAA6HOM.JPG in this cell
Resized to 150 pixels high, width between 450 and 500
Image resized 1 mark

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Landscape Management and Zoology & Behavioural Sciences. This section includes courses such as Science, Laboratory Technician and Process Operations.</h3>

</td>

</tr>

<tr>

<td>

<h2>Technology</h2>

</td>

<td width="63%">

<h3>The courses offered here are: Brickwork, Carpentry/Joinery, Bench Joinery, Machine Woodwork, Furniture Craft, Painting and Decorating, Marble and Graining, Installation Work and Regulations, Gas Safety, Electrical and Electronic Engineering, Security Systems, Electronic Servicing, Control Systems, Basic Engineering Competences, Basic Mechanical Skills, Programmable Logic Controllers, Engineering Maintenance Systems Competences and Mechanical Power Transmissions.</h3>

</td>

</tr>

</table>

</div>

<h2>Departments

Business/IT

Catering

Art & Design

Science

Technology

Opening hours

Mon - Thurs 9 am - 9 pm

Fri & Sat 10 am - 4 pm

General

Enrolment

Admissions

Student guidance

Fees & finance

Library

Flexible learning</h3>

<h2>Contact details

</h2>

</body>

</html>

Relative reference from hyperlink '*Flexible learning*' to open **SWAA6FLX.HTM** in new window called **EXTERNAL**
1 mark

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E:\H_Drive\2 cambridge ucles\new 2004\set c\worked\web\flexcent.htm

THE FLEXIBLE LEARNING CENTRE

The Flexible Learning Centre encourages and offers a student-centred approach to learning via technology-based activities.

Take advantage of computer based learning packages.

Assistance is always available from learning support and academic staff based in the Centre.

Attendance is on a drop-in basis.

A range of flexible IT courses is available.

Courses include:

- Introduction to the PC
- Using Windows
- Word Processing
- Spreadsheets
- Database
- Internet Technology
- Graphical Presentation
- Desktop Publishing



SWAA6FLX.JPG in this cell
 Any vertical or horizontal alignment is acceptable
 All image must be visible
 Aspect ratio must be maintained
Image placed as specified **1 mark**



Check this Image has replaced the text **1 mark**

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<html>

All links must be relative, no credit will be given for absolute references.

<head>

<title>The Flexible Learning Centre IVC</title>

<link rel="stylesheet" type="text/css" href="col.css">

</head>

<body>

<h1>THE FLEXIBLE LEARNING CENTRE</h1>

<div align="center">

<center>

<table border="1" width="947" height="630">

<tr>

<td width="492" height="630">

<h2>The Flexible Learning Centre encourages and offers a student-centred approach to learning via technology-based activities.</h2>

<h2>Take advantage of computer based learning packages.</h2>

<h2>Assistance is always available from learning support and academic staff based in the Centre. </h2>

<h2>Attendance is on a drop-in basis.</h2>

<h2>A range of flexible IT courses is available.</h2>

<h2>Courses include: </h2>

<h3>Introduction to the PC</h3>

<h3>Using Windows</h3>

<h3>Word Processing</h3>

<h3>Spreadsheets</h3>

<h3>Database</h3>

<h3>Internet Technology</h3>

<h3>Graphical Presentation</h3>

<h3>Desktop Publishing</h3>

</td>

<td width="439" height="630">

</tr>

</table>

</center>

</div>

<p></p>

</body>

External stylesheet applied **1 mark**
Any name can be used but must be consistent with previous page. Stylesheet must not be overridden.

Check for SWAA6ICO.GIF not .JPG - Width 35

Image converted to GIF

1 mark

Image resized to be 35 pixels wide and maintain the aspect ratio

1 mark

Hyperlink created from graphic to COLHOME.HTM

1 mark

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SLIDE 1

Master slide – check consistency
Background: Light green 1 mark
 Must be consistent throughout all slides

Master slide – check consistency
Candidate name and date top right, colour black, small text, 1 mark
 Font size to be smallest text on the slide


Candidate Name
Today's date

Heading:
 Dark green, right, large font between 50 & 72 point
Heading formatted correctly, 1 mark
Text of heading entered correctly 1 mark

Electry

Suppliers of quality white goods

Subheading:
 Bright green, centred, medium font between 36 & 46 point
Subheading formatted correctly, 1 mark
Text of subheading entered correctly 1 mark



1

Introduce yourself and your role within the company.

Master slide – check consistency
Automated slide number inserted
Centre aligned, starts at 1
Slide number in correct place 1 mark

Presenter Notes –
Not on the slide:
 100% correct and right place or suitably adapted text.
Presenter notes present 1 mark

Master slide – check consistency
Logo (category 'Kitchen Electrical Equipment'): -Suitable clipart chosen
Placed in bottom right quadrant of the screen
Logo placed bottom right 1 mark

Master slide – overlapping
Any master slide object not overlapping text or object on any slide 1 mark

SLIDE 2

Pie Chart created from data – Displaying a legend and values set to currency \$ sign and 0 dp

Freezer	127.99
Fridge	205.99
Fridge/Freezer	498.99
Oven	589.99
Tumble Dryer	185.99
Washing Machine	404.99

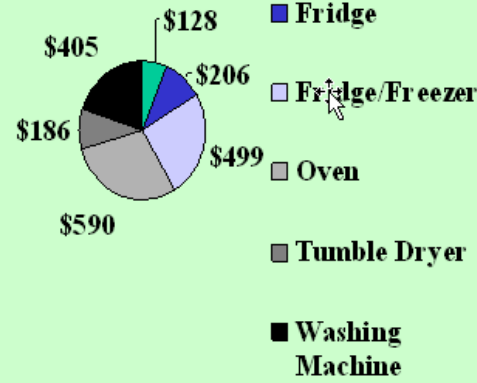
Chart created correctly 1 mark
All legend displayed 1 mark
\$ and 0dp 1 mark

Candidate's name and today's date:
 Placed in top right quadrant of the screen
 Colour black
 Font size to be smallest text on the slide

Heading:
 Style the same as slide 1.
Heading entered and formatted correctly 1 mark


Candidate Name
 Today's date

Price of larger white goods



- Freezer
- Fridge
- Fridge/Freezer
- Oven
- Tumble Dryer
- Washing Machine

Any form of vertical line between chart and bullets is acceptable (not arrows) *1 mark*



Slide number inserted centred

Logo:
 Suitable clipart chosen
 Placed in bottom right quadrant of the screen

Our range of white goods excels. Visit our website www.electrv.com

Presenter Notes:
100% correct & right place 1 mark

Bulleted list:
 Bright green, left aligned, small font between 16 & 32 point. Allow any bullet points
Bulleted list added correctly and in right place 1 mark
Bulleted list formatted as specified 1 mark

SLIDE 3

Heading:
Style the same as slide 1.
Text & formatting of heading correct **1 mark**

Candidate's name and today's date:
Placed in top right quadrant of the screen
Colour black
Font size to be smallest text on the slide

Candidate Name
Today's date

Our warranty

- 20 days return if not completely satisfied
- Free delivery within a radius of 20 miles
- Free removal of old goods on delivery of new




3

Bulleted list:
Bullets as slide 2
Added correctly and in right place related to image **1 mark**
Formatted correctly – must be consistent with slide 2 **1 mark**

Graphic - category Kitchen Electrical Equipment,
Suitable clipart, fully visible and not distorted
Clipart inserted correctly **1 mark**

Slide number inserted & centred

Logo:
Suitable clipart chosen
Placed in bottom right quadrant of the screen

Outside a radius of 20 miles we only charge a small fee, for example \$5 per 10 miles.

Visit our showroom or our website and take advantage of our low prices.

Presenter Notes:
100% correct & right place **1 mark**

From ARF
Colour correct **1 mark**
Slide transitions added **1 mark**
Slide animation added **1 mark**