Mark Scheme (Results)

June 2012

International GCSE ICT (4IT0)
Paper 2 Practical Paper
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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate’s response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate’s response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.
## Activity 1 – Using Art / Imaging and Graphics Software (AG)

| AG1a | 1. Some cropping – the whole of the plane is visible | 1 |
|      | 2. Some cropping – image remains rectangular without distortion | 1 |
|      | 3. Image cropped to remove as much as possible of the background | 1 |
| AG1b | 1. Shape of plane stands out on printout – colours changed to increase contrast | 1 |
|      | 2. InterAYR added to side of plane – spelt and capitalised as given | 1 |
|      | 3. Image is fit for purpose as a logo – text, face, plane outline clearly visible | 1 |
| AG1c | 1. Comment on lack of contrast in original | 1 |
|      | 2. Comment on how their choice has more contrast to make it easier to distinguish elements of the image when printed | 1 |

**Total for Task AG1**  8

**TOTAL FOR ACTIVITY 1**  8
Activity 2 – Using Database Software (DB)

### DB1a

1. Screen shot shows complete data entry form including title bar and navigation buttons – data entry view 1
2. Appropriate title on the form e.g. Customer Details, NOT just Customer 1
3. Eight correct fields for form 1
4. At least one field name customised appropriately 1
5. Use of a drop down list for TITLE or DEST or INITIAL 1
6. One additional enhancement from: appropriate field size/ customisation of all of FNAME, LNAME and DEST/ buttons/ two drop down lists / suitable on screen help. Do not accept date picker 1

### DB1b

1. **BARJ6, Ms, J, Jennie, Bartholomew, 00 44 1924 686867, DOH, 03/08/2012**
   
   New customer entered with no data entry errors and formatted same as corresponding data in other records Accept phone number with or without space in last six digits/ One field contains data entry or formatting error. Ignore repeated error of capitalisation. 2/

### DB1b

2. **Table as seen sorted on DATE** 1
3. Sorted in **ascending** order of DATE, minimum of 10 records 1
4. **Table printed 30 records, 8 correct fields, no truncation, allow follow through if new record not entered** 1

**Total for Task DB1** 11
### DB2a
2. Correct fields **TITLE, INITIAL, LNAME, PHONE** and **DATE** only  
3. Correct field order as in mark point 2. Ignore additional fields.  
4. Data sorted in ascending order of **LNAME**

### DB2b
1. Correct 10 records for 2 marks Minimum CITY field  
2. 8 Records only for >4000 **or**  
   2 (Sydney & Chicago) Records only for =4000 for 1 mark  
3. Correct fields **CITY, COUNTRY, DISTANCE** only

<table>
<thead>
<tr>
<th>CITY</th>
<th>COUNTRY</th>
<th>DISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doha</td>
<td>Qatar</td>
<td>5235</td>
</tr>
<tr>
<td>Dubai</td>
<td>United Arab Emirates</td>
<td>5492</td>
</tr>
<tr>
<td>Frankfurt</td>
<td>Germany</td>
<td>652</td>
</tr>
<tr>
<td>Rio De Janeiro</td>
<td>Brazil</td>
<td>9247</td>
</tr>
<tr>
<td>Kuala Lumpur</td>
<td>Malaysia</td>
<td>10598</td>
</tr>
<tr>
<td>Madrid</td>
<td>Spain</td>
<td>246</td>
</tr>
<tr>
<td>Nairobi</td>
<td>Kenya</td>
<td>6573</td>
</tr>
<tr>
<td>Chicago</td>
<td>United States</td>
<td>6340</td>
</tr>
<tr>
<td>Singapore</td>
<td>Singapore</td>
<td>10875</td>
</tr>
<tr>
<td>Sydney</td>
<td>Australia</td>
<td>17009</td>
</tr>
</tbody>
</table>

**Total for Task DB2** 7
DB3a  Allow Between 23/07/2012 And 29/07/2012 for marks 3, 4 and 5
Allow mark points 2, 3, 4, 5 and 6 for correct responses in data view.

1 Screen shot of query design. Minimum requirement 6 Labels (LHS of grid) and 1 field.  
2 Screen shot shows at least one field from each table used in query  
3 >= 23/07/2012 or > 22/07/2012 allow if only correct 5 records  
4 <= 29/07/2012 or < 30/07/2012 allow if only correct 5 records  
5 Design shows the criteria as AND allow if only correct 5 records  
6 Fields FNAME, LNAME, PHONE, COUNTRY, CITY, DATE only to be printed

DB3b  Must be a report format for any marks

1 Suitable title must include “customers”, “23 July”, “29 July”  
2 Correct 5 records (allow follow through from DB3a for 3 records shown omission of = in criteria) with at least one field from each table  
3 Correct fields LNAME, FNAME, COUNTRY, CITY, DATE in correct order  
4 Suitable customisation of field headings FNAME, LNAME  
5 Primary sort on CITY in ascending order  
6 Secondary sort on DATE in ascending order – do not award unless primary sort on CITY (either ascending or descending)  
7 Suitable layout (spacing and column headers) on one side of A4

Total for Task DB3 13
TOTAL FOR ACTIVITY 2: 31
### Activity 3 – Using Web Authoring Software (WA)

#### WA1 i
1. 1 page presented – all page visible and all text readable  
2. Logo from AG1b (AYRLOGO) visible  
3. Logo in top left corner of the page – appropriate size and position  
4. Suitable title for the page – e.g. InterAYR Special Offers  
5. Text selected from NOTES for Paris and/or Ireland  
6. Paris and/or Ireland image(s) inserted relevant to selected text. Allow f/t for correct image with only one incorrect offer selected. Image(s) not distorted and suitable size.  
7. Links to home page visible – award if evidence of hyperlink (e.g. underline/icon)  
8. At least one correct contact detail of address, phone or email  
9. Correct contact details present  
   - Address: InterAYR, 1 High Street, Croftor, Middlesex, TW21 PM  
   - Phone: 01753 329202; Email: enquiries@interayr.co.uk

#### WA1 ii
1. Layout is consistent with design – information in correct locations  
2. Colour scheme applied as in design – dark (blue) text on pale (yellow) background  
3. Appropriate font style and size for title  
4. Overall appropriateness of text (font styles and sizes)  
5. Overall fitness for purpose – does the page attract attention for the special offer  
6. Overall fitness for purpose – good use of software tools e.g. text and images aligned, no split words, text and images do not overlap, no distortion of logo

<table>
<thead>
<tr>
<th>Total for Task WA1</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL FOR ACTIVITY 3:</td>
<td>15</td>
</tr>
</tbody>
</table>

**Special Offer in September**

Special weekend break with free accommodation for 2 in Ireland on Friday 14 September

Address: InterAYR, High Street, Croftor, Middlesex TW21 2PM  
Phone: 01753 329202; Email: enquiries@interayr.co.uk
Activity 4 – Using Spreadsheet Software (SS)

### SS1
1. Suitable title e.g. InterAYR Ticket Prices
2. Suitable location for title e.g. in range A1 to D1

### SS1 ii
1. Airport cities in ascending alphabetical order
2. Table of data sorted in order of City (not just airport names)
   First row Amsterdam, 44.66, 368, 11

### SS1 iii
1. Spreadsheet is presented fit for purpose. No truncation.

### SS1 iv
1. Spreadsheet formatted for ease of reading.
   - Appropriate borders
   - Appropriate shading
   - Use of bold/underline/font size for column headings
   - Formatting of column B to currency
   - Suitable alignment (e.g. centring of columns B to D)

**Total for Task SS1** 7

### SS2 i
1. **Current Income** entered in cell in column E – same row as other labels

### SS2 ii
1. \(=B4*D4\) entered in cell E4. Allow follow through.
   2. Formula using cell references which gives correct answer (eg. \(=SUM(B4*D4)\))

### SS2 iii
1. Replication of formula to other cities

### SS2 iv
1. \(=SUM(E4:E9)\) in cell E11 (Totals row)
   2. Formula in E11 using cell references which gives correct answer (e.g. \(=E4+E5+... \) or \(=SUM(E4:E10)\))
   Or \(=SUM(E4:E9)\) in cell other than E11 (Totals row)

**Total for Task SS2** 6
### SS3

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>City</td>
<td>Current Price</td>
<td>Distance</td>
<td>Customers</td>
<td>New Ticket Price</td>
</tr>
<tr>
<td>---</td>
<td>------</td>
<td>---------------</td>
<td>----------</td>
<td>-----------</td>
<td>----------------</td>
</tr>
<tr>
<td>4</td>
<td>Amsterdam</td>
<td>44.66</td>
<td>308</td>
<td>11</td>
<td>=B4*F4</td>
</tr>
<tr>
<td>5</td>
<td>Birmingham</td>
<td>46.46</td>
<td>226</td>
<td>37</td>
<td>=B5*F$1</td>
</tr>
<tr>
<td>6</td>
<td>Dublin</td>
<td>77.23</td>
<td>449</td>
<td>46</td>
<td>=B6*F$1</td>
</tr>
<tr>
<td>7</td>
<td>Frankfurt</td>
<td>84.62</td>
<td>653</td>
<td>31</td>
<td>=B7*F$1</td>
</tr>
<tr>
<td>8</td>
<td>Madrid</td>
<td>48.71</td>
<td>1245</td>
<td>20</td>
<td>=B8*F$1</td>
</tr>
<tr>
<td>9</td>
<td>Paris</td>
<td>46.21</td>
<td>347</td>
<td>23</td>
<td>=B9*F$1</td>
</tr>
<tr>
<td>10</td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>=SUM(E4:E9)</td>
</tr>
</tbody>
</table>

#### SS3 i
1. \(0.15\) entered in suitable cell
2. Label (Charge per kilometre) entered in adjacent cell to value

#### SS3 ii

#### SS3 iii
1. Eg \(=C4*F$1\) or \(=C4*F$1\) or \(=F$1*C4\) or \(=F$1*C4\) in cell F4.
2. Accept absolute reference for cell which contains 0.15.
   Other formula in cell F4 using cell references which would give correct answer. Allow \(=C4*0.15\)

#### SS3 iv
1. \(=D4*F4\) or \(=F4*D4\) in cell G4 Do not allow \(=SUM(F4*D4)\)

#### SS3 v
1. Formulae in cells F4 and G4 replicated to other cities (must have absolute cell reference in cell F4). Do not accept replication of formula with constant value (eg 0.15)

#### SS3 vi
1. \(=SUM(G4:G9)\) entered in G11
   Do not award for \(=G4+G5+G6+G7+G8+G9\) or \(=SUM(G4:G10)\)

**Total for Task SS3** 8

### SS4

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>City</td>
<td>Current Price</td>
<td>Distance</td>
<td>Customers</td>
<td>New Ticket Price</td>
</tr>
<tr>
<td>---</td>
<td>------</td>
<td>---------------</td>
<td>----------</td>
<td>-----------</td>
<td>----------------</td>
</tr>
<tr>
<td>4</td>
<td>Amsterdam</td>
<td>£44.66</td>
<td>308</td>
<td>11</td>
<td>£491.26</td>
</tr>
<tr>
<td>5</td>
<td>Birmingham</td>
<td>£40.46</td>
<td>226</td>
<td>37</td>
<td>£1,497.02</td>
</tr>
<tr>
<td>6</td>
<td>Dublin</td>
<td>£77.23</td>
<td>449</td>
<td>46</td>
<td>£3,475.35</td>
</tr>
<tr>
<td>7</td>
<td>Frankfurt</td>
<td>£84.62</td>
<td>653</td>
<td>31</td>
<td>£2,003.22</td>
</tr>
<tr>
<td>8</td>
<td>Madrid</td>
<td>£89.10</td>
<td>1245</td>
<td>20</td>
<td>£1,782.00</td>
</tr>
<tr>
<td>9</td>
<td>Paris</td>
<td>£46.21</td>
<td>347</td>
<td>23</td>
<td>£1,839.83</td>
</tr>
<tr>
<td>10</td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>£10,288.66</td>
</tr>
</tbody>
</table>

#### SS4 i
1. Value \(£0.15\) changed to **£0.12**
   2. Allow 1 mark if \(£0.12\) entered elsewhere on spreadsheet

#### SS4 ii
1. All numerical values in cells apart from columns C and D (distance and customers) formatted to show currency symbols and 2 decimal places
   2. Consistency of borders, shading and font styles. All data is visible

**Total for Task SS4** 4
Comparison of new and old ticket prices

- Bar or column chart: 1
- Correct data range only (A4:B9, F4:F9) (no unnecessary data): 1
- Suitable title for graph (including concept of “comparison” and what is being compared). Accept title in header: 1
- Suitable axis labels (e.g. Airports/Cities, Prices): 1
- Suitable legend: 1

Total for Task SS5: 5
TOTAL FOR ACTIVITY 4: 30
Activity 5 – Using Word Processing Software (WP)

MEMO
To: Pauline
From: Angela
Date: 21 May 2012
Subject: July Senior Staff Meeting

There will be a meeting of the Senior Staff in my office on Thursday 12 July at 2:00 pm. During the meeting there will be a discussion of a staff bonus scheme. As a representative of the senior staff, I would like you to attend.

Please confirm that you will be able to attend.

AVR

WP1 a i 1 To: Pauline (Moores) and From: Angela (Yelena Reith) with or without labels 1

2 Date: 21 – 25 May (2012) within exam window with or without labels 1

3 Suitable subject including either Senior Staff or Bonus Scheme 1

4 Message must include date, time and place of meeting and indication of discussion topic (bonus scheme) 1

WP1 a ii 1 Use of proofreading, grammar and spell-check – evidenced by appropriate and accurate text 1

2 Fitness for purpose as a memo – layout consistent, alignment, font 1

Report for July Meeting

New Logos
I have had a new logo designed for the company. The new logo contains the company name and the image of the plane. It has been designed by the new assistant manager.

Rights to airports with longer runways
I have researched the databases to find airports which can take larger planes. I am considering offering special deals to these airports so that we can fill more seats on the planes. This will generate more revenue for the company.

Special Offers
I have added a new deal to the company website. During the next few weeks, once special offers are confirmed, you will be able to view the offers on the company website. The offers include a weekend break in Dublin with free accommodation.

Comparison of ticket prices
The graph shows how the cost of a ticket from different cities is compared to the cost of a ticket from our current pricing structure. The graph also shows how the cost of a ticket from different cities compares to the cost of a ticket from our current pricing structure.

41TO 02 1206
<table>
<thead>
<tr>
<th>WP1b</th>
<th>1 Text from <strong>JULY</strong> inserted</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 Logo from <strong>AG1b</strong> inserted</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3 Database query results from <strong>DB2b</strong> inserted</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>4 Screen shot of web page from <strong>WA1</strong> inserted</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>5 Graph from <strong>SS5</strong> inserted</td>
<td>1</td>
</tr>
<tr>
<td>WP1b</td>
<td>1 Inserts with appropriate text</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2 All items inserted with appropriate layout – image appropriate size and proportions maintained with no truncation or overlap</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3 Appropriateness and consistency of font – size and style of title, side headings, body text. Title and sub-headings stand out.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>4 Consistency of layout – alignment and justification of images and text. No inappropriate hyphenation.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>5 Fits on and fills one A4 sheet only (at least ¾ of page)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total for Task WP1** 16

**TOTAL FOR ACTIVITY 5:** 16

**TOTAL FOR PAPER:** 100