

CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2015 series

**0417 INFORMATION AND COMMUNICATION
TECHNOLOGY**

0417/03

Paper 1 (Practical Test B), maximum raw mark 80

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2015 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.

| | | | |
|---------------|--|-----------------|--------------|
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Header
Cand details centre aligned 1 mark

A1 to H1 merged 1 mark
TWCT – Week 14 Payroll 1 mark
18 point 1 mark
Centre aligned 1 mark
Bold sans-serif font 1 mark
White font/black background 1 mark

A Candidate, ZZ999, 9999

TWCT - Week 14 Payroll

Employees

| Payroll Number | Employee | Pay code | Pay rate | Contract hours | Hours worked | Pay | Overtime? |
|----------------|-----------|----------|----------|----------------|--------------|--------|------------|
| T0042 | Hernandez | B2 | \$9.00 | 35 | | \$0.00 | Incomplete |
| T0046 | Castro | F1 | \$7.50 | 35 | | \$0.00 | Incomplete |
| T0044 | Amir | F3 | \$7.50 | 12 | | \$0.00 | Incomplete |
| T0049 | Lee | A | \$15.00 | 35 | | \$0.00 | Incomplete |
| T0059 | Brown | F3 | \$7.50 | 20 | | \$0.00 | Incomplete |
| T0060 | Jaimeson | B4 | \$6.20 | 12 | | \$0.00 | Incomplete |
| T0048 | Dessouky | F1 | \$7.50 | 35 | | \$0.00 | Incomplete |
| T0057 | D'Silva | F2 | \$7.25 | 35 | | \$0.00 | Incomplete |
| T0050 | Schneider | F3 | \$7.50 | 12 | | \$0.00 | Incomplete |
| T0051 | Gomez | F4 | \$7.25 | 6 | | \$0.00 | Incomplete |
| T0064 | Patel | F1 | \$7.50 | 35 | | \$0.00 | Incomplete |
| T0065 | Ali | B1 | \$9.45 | 35 | | \$0.00 | Incomplete |
| Total | | | | | | \$0.00 | |

Rates

| Pay code | Contract | Pay rate | Status |
|----------|-----------|----------|-----------|
| F1 | Full time | \$7.50 | Permanent |
| F2 | Full time | \$7.25 | Temporary |
| A | Full time | \$15.00 | Permanent |
| B1 | Full time | \$9.45 | Permanent |
| B2 | Full time | \$9.00 | Temporary |
| F3 | Parttime | \$7.50 | Permanent |
| B3 | Parttime | \$9.00 | Permanent |
| F4 | Parttime | \$7.25 | Temporary |
| B4 | Parttime | \$6.20 | Temporary |

Formatting 1 mark
\$ 2dp
Printout 1 mark

| | | | |
|--------|---|----------|-------|
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Pay rate

VLOOKUP
Cell C4
Rates
Column 3
False

1 mark
1 mark
1 mark
1 mark
1 mark

Pay

D4 & F4 1 mark
* 1 mark

Overtime?

Nested IF – 2 tiers 1 mark
IF(F4>E4 1 mark
"Yes" 1 mark
IF(F4=E4 1 mark
"No" 1 mark
IF(F4<E4 1 mark
"Incomplete" 1 mark

One logic test will be by default due to other two

| TWCT - Week 14 Payroll | | | | | | | |
|------------------------|-----------|----------|-----------------------------|----------------|--------------|--------------|--|
| Payroll Number | Employee | Pay code | Pay rate | Contract hours | Hours worked | Pay | Overtime? |
| T0042 | Hernandez | B2 | =VLOOKUP(C4,Rates,3,FALSE) | 35 | 35 | =D4*F4 | =IF(F4<E4,"Incomplete",IF(F4=E4,"Yes","No")) |
| T0046 | Castro | F1 | =VLOOKUP(C5,Rates,3,FALSE) | 35 | 35 | =D5*F5 | =IF(F5<E5,"Incomplete",IF(F5=E5,"Yes","No")) |
| T0044 | Amir | F3 | =VLOOKUP(C6,Rates,3,FALSE) | 12 | 10 | =D6*F6 | =IF(F6<E6,"Incomplete",IF(F6=E6,"Yes","No")) |
| T0048 | Lee | A | =VLOOKUP(C7,Rates,3,FALSE) | 35 | 35 | =D7*F7 | =IF(F7<E7,"Incomplete",IF(F7=E7,"Yes","No")) |
| T0059 | Brown | F3 | =VLOOKUP(C8,Rates,3,FALSE) | 20 | 21 | =D8*F8 | =IF(F8<E8,"Incomplete",IF(F8=E8,"Yes","No")) |
| T0060 | Jameson | B4 | =VLOOKUP(C9,Rates,3,FALSE) | 12 | 12 | =D9*F9 | =IF(F9<E9,"Incomplete",IF(F9=E9,"Yes","No")) |
| T0048 | Desouky | F1 | =VLOOKUP(C10,Rates,3,FALSE) | 35 | 37 | =D10*F10 | =IF(F10<E10,"Incomplete",IF(F10=E10,"Yes","No")) |
| T0057 | O'Shea | F2 | =VLOOKUP(C11,Rates,3,FALSE) | 35 | 0 | =D11*F11 | =IF(F11<E11,"Incomplete",IF(F11=E11,"Yes","No")) |
| T0050 | Schneider | F2 | =VLOOKUP(C12,Rates,3,FALSE) | 12 | 12 | =D12*F12 | =IF(F12<E12,"Incomplete",IF(F12=E12,"Yes","No")) |
| T0051 | Gomez | F4 | =VLOOKUP(C13,Rates,3,FALSE) | 6 | 7 | =D13*F13 | =IF(F13<E13,"Incomplete",IF(F13=E13,"Yes","No")) |
| T0064 | Patel | F1 | =VLOOKUP(C14,Rates,3,FALSE) | 35 | 42 | =D14*F14 | =IF(F14<E14,"Incomplete",IF(F14=E14,"Yes","No")) |
| T0065 | Ali | B1 | =VLOOKUP(C15,Rates,3,FALSE) | 35 | 35 | =D15*F15 | =IF(F15<E15,"Incomplete",IF(F15=E15,"Yes","No")) |
| | | | | | Total | =SUM(G4:G15) | |
| Rates | | | | | | | |
| Pay code | Contract | Pay rate | Status | | | | |
| F1 | Fulltime | 7.5 | Permanent | | | | |
| F2 | Fulltime | 7.25 | Temporary | | | | |
| A | Fulltime | 35 | Permanent | | | | |
| B1 | Fulltime | 9.45 | Permanent | | | | |
| B2 | Fulltime | 9 | Temporary | | | | |
| F3 | Parttime | 7.5 | Permanent | | | | |
| B5 | Parttime | 9 | Permanent | | | | |
| F4 | Parttime | 7.25 | Temporary | | | | |
| B6 | Parttime | 6.3 | Temporary | | | | |

=SUM(G4:G15)

1 mark

Row & column headings visible

1 mark

Replication – Columns D G H

1 mark

1 page wide & fully visible

1 mark

| | | | |
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TWCT - Week 14 Payroll

Employees

| Payroll Number | Employee | Pay code | Pay rate | Contract hours | Hours worked | Pay | Overtime? |
|----------------|-----------|----------|----------|----------------|--------------|------------|------------|
| T0042 | Hernandez | B2 | \$9.00 | 35 | 35 | \$315.00 | No |
| T0046 | Castro | F1 | \$7.50 | 35 | 35 | \$262.50 | No |
| T0044 | Amir | F3 | \$7.50 | 12 | 10 | \$75.00 | Incomplete |
| T0049 | Lee | A | \$15.00 | 35 | 35 | \$525.00 | No |
| T0059 | Brown | F3 | \$7.50 | 20 | 21 | \$157.50 | Yes |
| T0060 | Jaimeson | B4 | \$6.20 | 12 | 12 | \$74.40 | No |
| T0048 | Dessouky | F1 | \$7.50 | 35 | 37 | \$277.50 | Yes |
| T0057 | D'Silva | F2 | \$7.25 | 35 | 0 | \$0.00 | Incomplete |
| T0050 | Schneider | F3 | \$7.50 | 12 | 12 | \$90.00 | No |
| T0051 | Gomez | F4 | \$7.25 | 6 | 7 | \$50.75 | Yes |
| T0064 | Patel | F1 | \$7.50 | 35 | 42 | \$315.00 | Yes |
| T0065 | Ali | B1 | \$9.45 | 35 | 35 | \$330.75 | No |
| Total | | | | | | \$2,473.40 | |

Rates

| Pay code | Contract | Pay rate | Status |
|----------|-----------|----------|-----------|
| F1 | Full time | \$7.50 | Permanent |
| F2 | Full time | \$7.25 | Temporary |
| A | Full time | \$15.00 | Permanent |
| B1 | Full time | \$9.45 | Permanent |
| B2 | Full time | \$9.00 | Temporary |
| F3 | Parttime | \$7.50 | Permanent |
| B3 | Parttime | \$9.00 | Permanent |
| F4 | Parttime | \$7.25 | Temporary |
| B4 | Parttime | \$6.20 | Temporary |

Data entry
Hours worked 1 mark
Total – correct value 1 mark

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TWCT - Week 15 Payroll

Employees

| Payroll Number | Employee | Pay code | Pay rate | Contract hours | Hours worked | Pay | Overtime? |
|----------------|-----------|----------|----------|----------------|--------------|------------|------------|
| T0042 | Hernandez | B2 | \$9.00 | 35 | 36 | \$324.00 | Yes |
| T0046 | Castro | F1 | \$7.50 | 35 | 35 | \$262.50 | No |
| T0044 | Amir | F3 | \$7.50 | 12 | 12 | \$90.00 | No |
| T0049 | Lee | A | \$15.00 | 35 | 35 | \$525.00 | No |
| T0059 | Brown | F3 | \$7.50 | 20 | 21 | \$157.50 | Yes |
| T0060 | Jaimeson | B4 | \$6.20 | 12 | 12 | \$74.40 | No |
| T0048 | Dessouky | F1 | \$7.50 | 35 | 37 | \$277.50 | Yes |
| T0057 | D'Silva | F2 | \$7.25 | 35 | 38 | \$275.50 | Yes |
| T0050 | Schneider | F3 | \$7.50 | 12 | 12 | \$90.00 | No |
| T0051 | Gomez | F4 | \$7.25 | 6 | 7 | \$50.75 | Yes |
| T0064 | Patel | F1 | \$7.50 | 35 | 42 | \$315.00 | Yes |
| T0065 | Ali | B1 | \$9.45 | 35 | 24 | \$226.80 | Incomplete |
| Total | | | | | | \$2,668.95 | |

Rates

| Pay code | Contract | Pay rate | Status |
|----------|-----------|----------|-----------|
| F1 | Full time | \$7.50 | Permanent |
| F2 | Full time | \$7.25 | Temporary |
| A | Full time | \$15.00 | Permanent |
| B1 | Full time | \$9.45 | Permanent |
| B2 | Full time | \$9.00 | Temporary |
| F3 | Part time | \$7.50 | Permanent |
| B3 | Part time | \$9.00 | Permanent |
| F4 | Part time | \$7.25 | Temporary |
| B4 | Part time | \$6.20 | Temporary |

Data entry
Week 15 in title 1 mark
Hours worked 1 mark
Total – correct value 1 mark

| | | | |
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TWCT - Week 15 Payroll

Employees

| Payroll Number | Employee | Pay code | Pay rate | Contract hours | Hours worked | Pay | Overtime? |
|----------------|-----------|----------|----------|----------------|--------------|------------|------------|
| T0065 | Ali | B1 | \$9.45 | 35 | 24 | \$226.80 | Incomplete |
| T0044 | Amir | F3 | \$7.50 | 12 | 12 | \$90.00 | No |
| T0059 | Brown | F3 | \$7.50 | 20 | 21 | \$157.50 | Yes |
| T0046 | Castro | F1 | \$7.50 | 35 | 35 | \$262.50 | No |
| T0048 | Dessouky | F1 | \$7.50 | 35 | 37 | \$277.50 | Yes |
| T0057 | D'Silva | F2 | \$7.25 | 35 | 38 | \$275.50 | Yes |
| T0051 | Gomez | F4 | \$7.25 | 6 | 7 | \$50.75 | Yes |
| T0042 | Hernandez | B2 | \$9.00 | 35 | 36 | \$324.00 | Yes |
| T0060 | Jaimeson | B4 | \$6.20 | 12 | 12 | \$74.40 | No |
| T0049 | Lee | A | \$15.00 | 35 | 35 | \$525.00 | No |
| T0064 | Patel | F1 | \$7.50 | 35 | 42 | \$315.00 | Yes |
| T0050 | Schneider | F3 | \$7.50 | 12 | 12 | \$90.00 | No |
| Total | | | | | | \$2,668.95 | |

Rates

| Pay code | Contract | Pay rate | Status |
|----------|-----------|----------|-----------|
| F1 | Full time | \$7.50 | Permanent |
| F2 | Full time | \$7.25 | Temporary |
| A | Full time | \$15.00 | Permanent |
| B1 | Full time | \$9.45 | Permanent |
| B2 | Full time | \$9.00 | Temporary |
| F3 | Part time | \$7.50 | Permanent |
| B3 | Part time | \$9.00 | Permanent |
| F4 | Part time | \$7.25 | Temporary |
| B4 | Part time | \$6.20 | Temporary |

Sorting
Alphabetically on employee 1 mark

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TWCT - Week 15 Payroll

Employees

| Payroll Number | Employee | Pay code | Pay rate | Contract hours | Hours worked | Pay | Overtime? |
|----------------|----------|----------|----------|----------------|--------------|----------|-----------|
| T0059 | Brown | F3 | \$7.50 | 20 | 21 | \$157.50 | Yes |
| T0048 | Dessouky | F1 | \$7.50 | 35 | 37 | \$277.50 | Yes |
| T0057 | D'Silva | F2 | \$7.25 | 35 | 38 | \$275.50 | Yes |
| T0051 | Gomez | F4 | \$7.25 | 6 | 7 | \$50.75 | Yes |
| T0064 | Patel | F1 | \$7.50 | 35 | 42 | \$315.00 | Yes |

Hidden – Rows 17 to 27 1 mark
Searching – Correct results 1 mark

| | | | |
|--------|---|----------|-------|
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Evidence Document

Step 5

Named range Rates 1 mark
Cells A19 to D27 1 mark

Step 11

Test Table

| Input | | Output | | |
|----------------|-------------|----------------|----------|--------|
| Cell reference | Data chosen | Cell reference | Expected | Actual |
| F4 | 10 | G4 | 90 | 90 |

Data chosen Integer value <100 1 mark
Expected correct 1 mark
Actual matches cand function 1 mark

Step 12

Test Table

| Input | | Output | | |
|----------------|-------------|----------------|------------|------------|
| Cell reference | Data chosen | Cell reference | Expected | Actual |
| F4 | 35 | H4 | No | No |
| F4 | 34 | H4 | Incomplete | Incomplete |
| F4 | 36 | H4 | Yes | Yes |

Data chosen =35 1 mark
Expected = No 1 mark
Actual matches candidate function 1 mark

Data chosen Value <35 1 mark
Expected = Incomplete 1 mark
Actual matches candidate function 1 mark

Data chosen Value >35 1 mark
Expected = Yes 1 mark
Actual matches candidate function 1 mark

| | | | |
|--------|---|----------|-------|
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Step 27

Searching Method

TWCT - Week 15 Payroll

| Payroll Number | Employee | Pay code | Pay rate | Contract hour | Hours worked | Pay | Overtime |
|----------------|----------|----------|----------|---------------|--------------|----------|----------|
| T0059 | Brown | F3 | \$7.50 | 20 | 23 | \$157.50 | Yes |
| T0048 | Dessouky | F1 | \$7.50 | 35 | 37 | \$277.50 | Yes |
| T0057 | O'Shea | F2 | \$7.25 | 35 | 38 | \$275.00 | Yes |
| T0051 | Gomez | F4 | \$7.25 | 8 | 7 | \$50.75 | Yes |
| T0064 | Patel | F1 | \$7.50 | 35 | 42 | \$325.00 | Yes |

Search Overtime Yes 1 mark

Search Pay code Starts with F 1 mark

Custom AutoFilter

Show data where:

Pay code

begins with to

☒ And ☐ Or

Use * to represent any single character
Use * to represent any series of characters






OK Cancel

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Step 38





| | | |
|---------|--------------------------|--------|
| Table | Borders visible | 1 mark |
| 1st row | Title image | 1 mark |
| 2nd row | Alligator image | 1 mark |
| | Elephant image | 1 mark |
| 3rd row | Alligator as h2 | 1 mark |
| | Elephant as h2 | 1 mark |
| 4th row | Giraffe image | 1 mark |
| | Rhinoceros image resized | 1 mark |
| 5th row | Giraffe as h2 | 1 mark |
| | Rhinoceros as h2 | 1 mark |

The screenshot shows a web browser window with the address bar displaying 'D:\CIE\0417\2015 November\Worked\N15_3spo'. The browser's menu bar includes 'File', 'Edit', 'View', 'Favourites', 'Tools', and 'Help'. The website content is displayed on a light green background. At the top, there is a banner image with the text 'TWCT' in black and 'Sponsor an animal...' in red. Below this, there is a table with four rows and two columns. The first row contains a large image of an alligator and a large image of an elephant. The second row contains a close-up image of an alligator and a full-body image of an elephant. The third row contains a close-up image of a giraffe and a full-body image of a rhinoceros. The fourth row contains the names 'Giraffe' and 'Rhinoceros' in bold black text. The browser's status bar at the bottom right shows '100%' zoom.

| | |
|---|--|
|  | |
|  |  |
| <p><u>Alligator</u></p> | <p>Elephant</p> |
|  |  |
| <p>Giraffe</p> | <p>Rhinoceros</p> |

| | | | |
|--------|---|----------|-------|
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Browser window showing a web page with animal images and names.

| | |
|--|---|
|  |  |
| <u>Alligator</u> | Elephant |
|  |  |
| Giraffe | |

6th row Click on... ..sponsor it. 1 mark
as h2 1 mark
Edited by & all candidate details 1 mark
as h3 1 mark

Click on the name of an animal or the image of an animal to sponsor it.

Edited by A Candidate, ZZ999, 9999

100%

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Step 39

```
<!DOCTYPE html>
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="n15_3_style.css">
  </head>
  <body>
```

Stylesheet n15_3_style.css attached 1 mark

| | | |
|----------------------|--|--------|
| Table | centre aligned in window | 1 mark |
| 1st <tr> | 1st <td> 620 × 190 | 1 mark |
| | colspan=2 | 1 mark |
| 2nd <tr> | 2 cells @ 310 × 235 | 1 mark |
| 3rd <tr> | 1 st <td> 310 × 80 | 1 mark |
| | 2 nd <td> 310 × 80 | 1 mark |
| 4 th <tr> | As 2 nd <tr> or 2@310 × 235 | 1 mark |
| 5 th <tr> | As 3 rd <tr> or 2@310 × 80 | 1 mark |
| 6 th <tr> | 620 × 160 &colspan=2 | 1 mark |

```
<table border="1" style="margin-left:auto; margin-right:auto;">
  <tr style="height:190px;">
    <td colspan=2 style="width:620px;">
    </td>
  </tr>
  <tr style="height:235px;">
    <td style="width:310px;">
```

All images Appropriate alt text attributes 1 mark
Hyperlinks from

- Alligator image 1 mark
- Alligator text 1 mark
- href=" n15_3_alligator.htm" 1 mark
- target="_gator" 1 mark

```
<a href="n15_3_alligator.htm" target="_gator"></a>
  </td>
  <td style="width:310px;">
    
  </td>
</tr>
<tr style="height:80px;">
  <td style="width:310px;"><h2><a href="n15_3_alligator.htm"
target="_gator">Alligator</a></h2>
  </td>
  <td style="width:200px;"><h2>Elephant</h2>
  </td>
</tr>
<tr style="height:235px;">
  <td style="width:310px;">
  </td>
  <td style="width:310px;">
  </td>
</tr>
<tr style="height:80px;">
  <td style="width:235px;"><h2>Giraffe</h2>
  </td>
  <td style="width:235px;"><h2>Rhinoceros</h2>
  </td>
</tr>
```

| Page 11 | Mark Scheme | Syllabus | Paper |
|---------|---|----------|-------|
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```

<tr style="height:160px;">
  <td colspan=2 style="width:620px;">
    <h2>Click on the name of an animal or the image of an animal to
sponsor it.</h2>
    <h3>Edited by A Candidate, ZZ999, 9999</h3>
  </td>
</tr>
</table>
</body>
</html>

```