

**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

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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  
\$ 2dp 1 mark  
Printout 1 mark

Pay rate  
 VLOOKUP 1 mark  
 Cell C4 1 mark  
 Rates 1 mark  
 Column 3 1 mark  
 False 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(C3,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"))
T0049	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	Jamieson	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	D'Silva	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	Fatel	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)	

=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

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	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

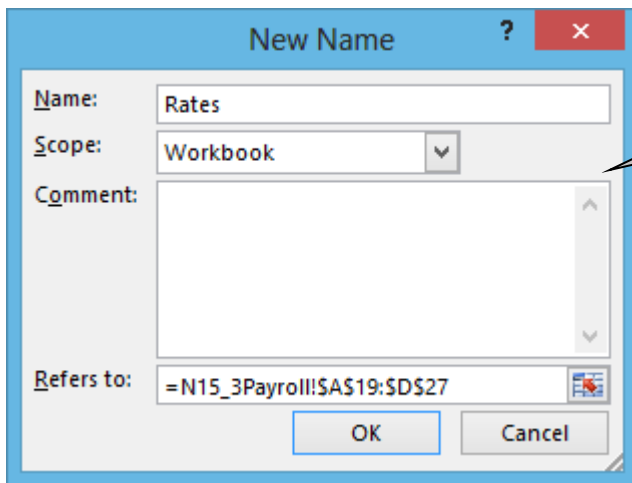
Employees

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

Evidence Document

Step 5



Named range Rates  
Cells A19 to D27  
1 mark  
1 mark

Step 11

Test Table

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

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

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  
Expected = No  
Actual matches candidate function  
1 mark  
1 mark  
1 mark

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

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

**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	Rafel	F1	\$7.50	35	42	\$315.00	Yes

Search dialog box settings:  
 Search:  Overtime  
 Incomplete  
 No  
 Yes  
 (blank)

Search Overtime Yes 1 mark

**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	Rafel	F1	\$7.50	35	42	\$315.00	Yes

Custom AutoFilter dialog box settings:  
 Show rows where:  
 Pay code  
 begins with: F  
 and  or

Search Pay code Starts with F 1 mark

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 following content:

- Header:** A banner image featuring a crocodile's head and the text "TWCT Sponsor an animal..." in red.
- Grid:** A 2x2 grid of animal images, each with a corresponding label in a light green box below it:
  - Top-left: Alligator image, label "Alligator".
  - Top-right: Elephant image, label "Elephant".
  - Bottom-left: Giraffe image, label "Giraffe".
  - Bottom-right: Rhinoceros image, label "Rhinoceros".



The screenshot shows a web browser window with a light green background. It features a 2x2 grid of animal images. Below each image is a text label: 'Alligator', 'Elephant', 'Giraffe', and 'Rhinoceros'. At the bottom of the page, there is a text box with the instruction: 'Click on the name of an animal or the image of an animal to sponsor it.' and 'Edited by A Candidate, ZZ999, 9999'. A speech bubble points to this text box with the following content: '6th row Click on... ..sponsor it. 1 mark as h2 1 mark Edited by & all candidate details 1 mark as h3 1 mark'.

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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 colspan=2	1 mark
2nd <tr>	2 cells @ 310 × 235	1 mark
3rd <tr>	1 <sup>st</sup> <td> 310 × 80	1 mark
	2 <sup>nd</sup> <td> 310 × 80	1 mark
4 <sup>th</sup> <tr>	As 2 <sup>nd</sup> <tr> or 2@310 × 235	1 mark
5 <sup>th</sup> <tr>	As 3 <sup>rd</sup> <tr> or 2@310 × 80	1 mark
6 <sup>th</sup> <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>
```

<b>Page 11</b>	<b>Mark Scheme</b>	<b>Syllabus</b>	<b>Paper</b>
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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>
```