

## basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

## **COMPUTER APPLICATIONS TECHNOLOGY P1**

**FEBRUARY/MARCH 2017** 

MEMORANDUM/MARKING GUIDELINES

**MARKS: 180** 

					- 1		1	
CENTRE NUMBER					FINAL	MARK		
EXAMINATION NUMBER								
QUESTION	1	2	3	4	5	6	7	TOTAL
POSSIBLE MARK	37	17	38	17	37	19	15	180
MARKER								
SM								
СМ								
IM/EM								

This memorandum/marking guideline consists of 14 pages.

EXAMINATION							
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## IGNORE SPELLING IN ALL CASES WHERE IT WOULD NOT HAVE AN IMPACT ON THE ANSWER.

QUESTION 1 File name: 1Areas Total Q1: 37

No	Criteria	Ma	aximu Mark		Candidate Mark
1.1.1	Abstract  • Language set to ONLY English (South Africa) ✓	1		1	
1.1.2	Abstract alignment  ■ Text of abstract justified ✓	1		1	
1.2	<ul> <li>Image</li> <li>Image cropped to any shape ✓</li> <li>Sharpness set to 50% or any other % besides 0% ✓</li> </ul>	1		2	
1.3	Subtitle text control  • Content control (not text) removed ✓	1		1	
1.4	<ul> <li>Table of contents</li> <li>Table of contents inserted ✓ with 'Classic' style</li> <li>'Water' style used as first heading style/level ✓</li> <li>'Heading 1' style used as second heading style/level ✓</li> <li>(Alt F9: {TOC \h \z \t "Heading 1,2,Water,1"})</li> <li>Page numbers have solid leaders ✓</li> </ul>	1 1 1		4	
1.5	<ul> <li>Page numbers</li> <li>Automatic page numbering inserted in the footer ✓</li> <li>Formatted as 'Page 1' OR 'page 1' style ✓</li> <li>Numbering starts as 1 on the 'Contents' page ✓</li> <li>Odd page numbers aligned on the left ✓</li> <li>Even page numbers aligned on the right ✓</li> <li>(Notes to marker:</li> <li>Accept if odd and even was swopped.</li> <li>Award the fourth mark if 'Different odd and even' was checked, even if no numbers were inserted.)</li> </ul>	1 1 1 1 1		5	
1.6	<ul> <li>Dropped cap</li> <li>Dropped cap applied on 'Our' (any number of lines) ✓</li> <li>Spacing set to 0.5 cm from the text ✓</li> </ul>	1		2	
1.7	<ul> <li>Cross-reference</li> <li>Cross-reference added on text 'table 1' ✓ (Ref475517156)</li> <li>Links to table ✓</li> </ul>	1		2	

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NOMBEK							

1.8.1	Table style (Water Source Area Table)  • Any predefined style applied ✓	1	1	
1.8.2	Table heading  • 'Repeat Header Rows' checked for first row ✓	1	1	
1.8.3	<ul> <li>Footnote</li> <li>Footnote inserted on text 'Grootwinterhoek' ✓ (check 'Grootwinterhoek' text on other pages)</li> <li>Reads as 'Strategic water sources' ✓ (accept any text)</li> <li>'*' used as symbol ✓</li> </ul>	1 1 1	3	
1.9	<ul> <li>Caption (WESTERN CAPE WATER SOURCE AREAS)</li> <li>Any automatic caption added to image ✓</li> <li>Label reads as 'Image 1' (or 'image1') ✓</li> </ul>	1	2	
1.10	<ul> <li>Bullets</li> <li>Bullets below 'Boland Mountains' changed to Wingdings character number 165 (⊚) ✓</li> </ul>	1	1	
1.11	<ul> <li>WordArt</li> <li>WordArt applied to 'Did you know?' ✓</li> <li>Text wrapping set to 'Top and Bottom' ✓</li> </ul>	1 1	2	
1.12	<ul> <li>Chart/Graph (MPUMALANGA DRAKENSBERG)</li> <li>Any data of chart/graph changed ✓</li> <li>Two changes correctly made to any graph (Cultivated 2%, Natural 48%) ✓</li> </ul>	1	2	
1.13	<ul> <li>Citation</li> <li>Any automatic citation inserted ✓</li> <li>Report source created ✓</li> <li>Correct fields: Title: The effects of water, Year: 2015 entered (accept if only one field was entered) ✓</li> </ul>	1 1 1	3	
1.14	<ul> <li>Table of figures</li> <li>Table of figures added to show images ✓</li> <li>Table of figures displaying tables has not been deleted ✓ (award only if attempt was made for first bullet)</li> </ul>	1	2	
1.15	<ul> <li>Page layout</li> <li>Last page changed to portrait ✓</li> <li>Other pages remain in landscape ✓ (award only if attempt was made for first bullet)</li> </ul>	1	2	
	Total for QUESTION 1		[37]	

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QUESTION 2 File names: 2Water, 2Done Total Q2: 17

No	Criteria	N	laxim Marl		Candidate Mark
2.1	<ul> <li>Date field</li> <li>Any date added ✓</li> <li>Field will automatically update ✓</li> </ul>	1		2	
2.2	<ul> <li>Textbox fill</li> <li>Second text box <u>filled</u> with 2Drops image ✓</li> <li>All/some text bolded in any text box ✓</li> </ul>	1		2	
2.3	Drop-down field: Gender  • 'Femail' spelling changed to 'Female' ✓	1		1	
2.4	<ul> <li>Check box: 'Older than 60'</li> <li>Any check box inserted ✓ to the left of text (or in any other position)</li> </ul>	1		1	
2.5	Text form field: 'Number of adults'  • Type changed to 'Number' ✓	1		1	
2.6	<ul> <li>Number form field: 'How much do you pay'</li> <li>Number format changed to value with 'R' currency format ✓</li> </ul>	1		1	
2.7	<ul> <li>Tabs</li> <li>Leader tabs/tab set to approximately 6 cm, 10 cm and 15 cm ✓</li> <li>Left tabs used in all cases ✓</li> <li>Tab leaders added in two cases (6 cm and 15 cm) ✓</li> <li>All tabs correctly applied ✓</li> </ul>	1 1 1		4	
2.8	<ul> <li>Mail merge</li> <li>Data source 2Det_Bes used ✓</li> <li>Any sorting done ✓ in ascending order ✓</li> <li>Name and Surname fields inserted ✓</li> <li>Merge completed ✓ (2Done)</li> <li>(Note to marker: 29 or 30 letters expected.)</li> </ul>	1 1 1 1		5	
	Total for QUESTION 2			[17]	

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QUESTION 3 File name: 3Rain\_Reën Total Q3: 38

- Mark the questions from the formulae and not the values/answers in the cell.
- Check against candidate's actual work (Cell references may differ, depending on the candidate's response).
- Candidate may use multiple formulae or cells as 'building blocks' to reach answers.
- Named ranges can be used instead of cell references.
- The answers must still be correct even if changes are made to the existing data.

No	Criteria	N	laxim Marl		Candidate Mark
Rain_	Reën worksheet				
3.1.1	Row 1:  • Merged cell changed to A1:O1 ✓	1		1	
3.1.2	<ul> <li>Row 1 fill:</li> <li>Any fill effect applied ✓</li> <li>Thin diagonal stripe pattern style fill effect applied ✓ (accept any diagonal stripes)</li> </ul>	1 1		2	
3.2	<ul> <li>Freeze panes:</li> <li>Freeze panes effect applied ✓</li> <li>Correct columns and rows (rows 1 and 2, columns A and B) ✓</li> </ul>	1 1		2	
3.3	Cell D3:  • =VALUE(C3) ✓  (Note to marker: After sorting =VALUE(C6).)	1		1	
3.4	Cell G48:  • =MODE ✓ (G3:G46) ✓	2		2	
3.5	Cell H49: =ROUNDUP(AVERAGE(H3:H46),0) OR =CEILING(AVERAGE(H3:H46),1) OR			3	
	=ROUND(AVERAGE(H3:H46)+0.5,0)				
	<ul> <li>AVERAGE(H3:H46) ✓</li> <li>ROUNDUP/CEILING/INT ✓</li> <li>,0 for ROUND/ROUNDUP and ,1 for CEILING ✓</li> </ul>	1 1 1			

3.6	<ul> <li>Cell K50:</li> <li>=LARGE(K3:K46,3)</li> <li>• LARGE function ✓</li> <li>• Correct range and parameters (K3:K46,3) ✓</li> </ul>	1 1	2	
3.7	Cell M51: =SUMIF(B3:B46,"2015",M3:M46)  • SUMIF function ✓ • Criteria range: (B3:B46) ✓ • Criteria: "2015" ✓ • Sum range: (M3:M46) ✓	1 1 1 1 1	4	
3.8	<ul> <li>Conditional formatting Column D to Column O:</li> <li>Conditional formatting has been applied to cells D3:O46 ✓</li> <li>3 different colours applied (any colours) ✓</li> <li>Lowest point set to 0 ✓</li> <li>Midpoint set to 100 ✓</li> <li>Highest point is set to 630 ✓</li> <li>(Note to marker: No marks awarded if conditional formatting has not been applied.)</li> </ul>	1 1 1 1	5	
3.9	Cell R4: =IF(SUM(D24:O24)>650,"High","Low")  OR =IF(SUM(D24:O24)<=650,"Low","High")  • IF-syntax is correctly used ✓  Conditions: • Sum ✓ of Cape Town 2015 ✓ (or any other range) • Smaller than or equal to 650 (or greater than) ✓ • Value "Low" if less than or equal to 650 ✓ • Else value "High" if greater than 650 ✓  (Notes to marker: • Accept building blocks. • There are many alternative answers. Evaluate the candidates answer against the bulleted options. • Accept D44:O44.)	1 2 1 1 1	6	
3.10	<ul> <li>Sorting:</li> <li>First sorted by year – smallest to largest ✓</li> <li>Second sorted by city – A to Z ✓</li> </ul>	1 1	2	

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Durba	n worksheet			
3.11	Cell C6: =SUBTOTAL(\$A\$6,C10:C53)		2	
	OR =SUBTOTAL(\$A\$6,C9:C53)			
	<ul> <li>Cell range C10:C53 ✓</li> <li>Absolute cell reference ✓</li> </ul>	1		
3.12	Filter:  • Filter set on Durban ✓	1	1	
Bloem	nfontein worksheet			
3.13	Graph		5	
	<ul> <li>Area chart/graph displays rainfall per month per year for Bloemfontein (range B1:O12) ✓</li> <li>Suitable chart title inserted ✓</li> <li>Any legend inserted ✓ below</li> <li>Horizontal axis options display years ✓</li> <li>Data labels inserted for 'Total' series ✓</li> </ul>	1 1 1 1 1		
	Total for QUESTION 3		[38]	

EXAMINATION							
NUMBER							

QUESTION 4 File name: 4Game\_Speel Total Q4: 17

- Mark the questions from the formulae and not the values/answers in the cell.
- Check against candidate's actual work (Cell references may differ, depending on the candidate's response).
- Candidate may use multiple formulae or cells as 'building blocks' to reach answers.
- Named ranges can be used instead of cell references.
- The answers must still be correct even if changes are made to the existing data.

No	Criteria	N	laxim Marl	-	Candidate Mark
Score	s_Punte worksheet				
4.1	Hyperlink:  ■ Hyperlink removed from heading 'Water Games' ✓	1		1	
4.2	Cell E3: =(TODAY()-D3)/7			3	
	OR =(NOW()-D3)/7				
	OR =DAYS(NOW(),D3)/7				
	OR =DAYS(TODAY(),D3)/7				
	<ul> <li>TODAY() function ✓</li> <li>-D3 ✓</li> <li>/7 ✓</li> </ul>	1 1 1			
	<ul> <li>(Notes to marker:</li> <li>Accept if the current date was entered in a cell and the cell reference was used.</li> <li>If the DAYS function was used allocate one mark for the function and one mark each for the correct parameters.)</li> </ul>				
4.3	<ul> <li>Data validation:</li> <li>'Black' removed from the list ✓</li> <li>Applied to the whole column G ✓</li> </ul>	1		2	

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4.4	Cell I3: =LEFT(C3,2)&" "&RANDBETWEEN(0,99)&LOWER(F3)		7	
	OR =CONCATENATE(LEFT(C3,2)," ",RANDBETWEEN(0,9 9), LOWER(F3))			
	OR = MID(C3,1,2)&" "&RANDBETWEEN(0,99)& LOWER(F3)			
	<ul> <li>LEFT (or MID) function ✓</li> <li>Cell reference and number of characters (C3,2) ✓</li> <li>Space ✓</li> <li>RANDBETWEEN function ✓</li> </ul>	1 1 1 1		
	<ul> <li>Parameters (0,99) ✓</li> <li>LOWER function and cell reference F3 ✓</li> <li>CONCATENATE OR &amp; operators correctly used ✓</li> </ul>	1 1 1		
4.5	Cell J3: =HLOOKUP(H3,Awards_Toekennings!\$A\$1:\$E\$3,2)		4	
	<ul> <li>HLOOKUP function ✓</li> <li>Lookup value: H3 ✓</li> <li>Lookup range: Awards!\$A\$1:\$E\$3 ✓ (ignore if no about to self in factors)</li> </ul>	1 1 1		
	<ul> <li>absolute cell reference, accept B1:E3)</li> <li>Row number: 2 ✓</li> </ul>	1		
	(Note to marker: If the candidate changed the orientation of the Awards_Toekennings worksheet, VLOOKUP may be used.)			
	Total for QUESTION 4		[17]	

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QUESTION 5 File name: 5Dam Total Q5: 37

No	Criteria	N	laxim Mar		Candidate Mark
Table:	Dam				
5.1.1	Field: Name or Location  • Set as primary key ✓	1		1	
5.1.2	Field: Town  • > inserted in Format field property ✓	1		1	
5.1.3	Field: Province  • Combo box created ✓  • Row source: Province ✓	1 1		2	
5.1.4	Field: Completed Input Mask: 00/>LLL/0000  Two compulsory digits: 00 ✓  Uppercase: > ✓  Three compulsory letters: LLL ✓  Four compulsory digits: 0000 ✓  Divider: / (accept '-' due to computer settings) ✓	1 1 1 1 1 1		5	
5.1.5	Field: Capacity  • Validation Rule  >=0 OR NOT <0 ✓	1		1	
5.1.6	<ul> <li>Field: Illustration</li> <li>Data type changed to OLE Object/ Hyperlink ✓</li> <li>5AlbertFalls image inserted for the 'Albert Falls Dam' record ✓</li> <li>(Note to marker: Check on Hyperlink when file is</li> </ul>	1 1		2	
Querv	transferred to another computer.) : qry5_2				
5.2	<ul> <li>Town field inserted ✓</li> <li>Criteria in Province field: Limpopo ✓</li> <li>(Note to marker: 15 records expected.)</li> </ul>	1 1		2	

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NUMBER							

Query: qry5_3	
<ul> <li>Fields displayed: Province, Avg Of Capacity OR Capacity ✓</li> <li>Criteria on Province: "Free State" ✓ OR "North West" ✓</li> <li>AVG ✓ (ignore whether rounded or not)</li> <li>Calculated on Capacity field ✓</li> </ul>	5 1 1 1 1 1
(Note to marker: 2 records expected.)	
Query: qry5_4	
<ul> <li>Only Name and Town fields display ✓</li> <li>Criteria on Surface: IS NOT NULL OR "Like *" OR "True" ✓</li> <li>Criteria on Completed: Between #01/01/1990# ✓ AND #31/12/2000# ✓ OR &gt;=#1/1/1990# AND &lt;=#12/31/2000#</li> </ul>	1 4 1 2 2
(Notes to marker:	
<ul> <li>11 records expected.</li> <li>Format of the dates may differ depending on system dates.)</li> </ul>	
Query: qry5_5	
<ul> <li>Calculated field called <i>Volume</i> has been created ✓</li> <li>Calculation: [Surface]*[Height]*0.3 ✓</li> <li>Format changed to Fixed/Standard ✓ and one decimal place ✓</li> </ul>	1 4 1 1 1 1
Form: frm5_6	
<ul> <li>5.6</li> <li>• 5AlbertFalls image added ✓ as form background image ✓</li> <li>• Hyperlink inserted ✓ next to <i>Province</i> label</li> <li>• Links to the Province table NOT database ✓</li> <li>• Examination number displays in the form footer ✓</li> </ul>	1 5 1 1 1 1
Report: rpt5_7	
<ul> <li>Illustration label AND field removed ✓</li> <li>Report grouped according to Province ✓</li> <li>Report sorted by Town ✓</li> <li>Function in Province report footer/report header ✓</li> <li>=MAX([Capacity]) ✓</li> </ul>	1 5 1 1 1 1 1 1
Total for QUESTION 5	[37]

EXAMINATION							
NUMBER							

QUESTION 6 File name: 6Wise\_Wys Total Q6: 19

- This question should be marked from the HTML code.
- Numerical attribute values do not need to be in inverted commas.
- A maximum of 1 mark will be deducted if one or more closing tags are omitted.

No	Criteria	N	laxim Marl	_	Candidate Mark
6.1	Title <title>Examination number</title>			1	
	<ul> <li>Examination number inserted inside title tags ✓</li> </ul>	1			
6.2	Table cell and image			3	
	<ul> <li>Additional cell inserted anywhere ✓</li> <li>6Life.jpg image inserted ✓</li> </ul>	1			
	Image tags correctly inserted ✓	1			
6.3	Horizontal line <hr size="5"/>			2	
	<ul> <li>Horizontal line inserted ✓</li> <li>Size set to 5 ✓</li> </ul>	1 1			
6.4	Alignment and font <h2 align="center"><font face="Arial">Are you water wise?</font></h2>			2	
	<ul> <li>Alignment set to centre ✓</li> <li>Font changed to 'Arial' ✓</li> </ul>	1 1			
6.5	Table border			2	
	<ul> <li>Border set to 1 ✓</li> <li>Cellpadding set to 12 ✓</li> </ul>	1			

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6.6	Table columns <font size="3"> <iont <iont="" size="3"> <iont size="3"> <iont <iont="" size="3"> <iont <iont="" size="3"> <iont <iont="" size="3"> <iont size="3"> <iont <iont="" size="3"> <iont size="3"> <iont <iont="" size="3"> <iont <iont="" size="3"> <iont <iont="" si<="" size="3" th=""><th></th><th>3</th><th></th></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></iont></font>		3	
	<ul> <li>One table cell appears ✓</li> <li>Closing tags for first cell and opening tags for second cell removed ✓</li> <li>Column span set to 2 ✓</li> </ul>	1 1 1		
6.7	Alternative text <img alt="Inside" src="6House.jpg"/> Inside the house   • Alternative text 'Inside' added ✓ on 6House image	1	1	
6.8	Unordered list <ul type="circle"></ul>		2	
	<ul> <li>Type set to circle ✓</li> <li>All list items have opening and closing tags ✓</li> </ul>	1 1		
6.9	Link <a href='mailto:"waterwize@water.co.za"'> waterwize.co.za</a>		3	
	<ul> <li>Link created on the text 'waterwize.co.za' (accept any text) ✓</li> <li>Links to an e-mail address – Mailto: ✓</li> <li>E-mail address 'waterwize@water.co.za' ✓</li> </ul>	1 1 1		
	Closing tag(s) or triangular brackets omitted or more than one closing tag in the incorrect order	-1		
	Total for QUESTION 6		[19]	

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QUESTION 7 Total Q7: 15
File names: 7River Rivier, 7Rivers Riviere, 7Answ Antw

Maximum Candidate No Criteria Mark Mark 7Rivers\_Riviere worksheet 7.1.1 3 Header Worksheet name added ✓ 1 1 As field ✓ 1 In the left section of the header ✓ 7.1.2 Named range 1 Named range changed to 'Name River' ✓ 1 (Note to marker: Accept if a new named range 'Name\_River' was inserted.) **Protection** 7.1.3 2 1 Columns A to C locked ✓ 1 Password 123 used ✓ 7River Rivier database 7.2 Import table 2 Data from the 7Rivers Riviere spreadsheet imported in 7River Rivier database ✓ 1 Saved as a new database table called Rivers ✓ 7Answ Antw 7.3.1 Gutter position of the document 1 1 Top ✓ 1 7.3.2 Number of paragraphs in the document 1 83 ✓ Number of occurrences of the letter 'm' in the document 7.3.3 1 1 185 √ First word that appears on line 100 7.3.4 1 1 rates OR crop ✓ Line weight of the 'Intense Quote' style 7.3.5 1 1 • 0.5 OR (½) ✓ 7.3.6 Word marked as an index 1 SHARPS ✓ 1 7.3.7 Title of the citation source that appears in the document 1 Water Savers ✓ 1 **Total for QUESTION 7** [15] **TOTAL** 180