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basic education

Department: Basic Education **REPUBLIC OF SOUTH AFRICA**

NATIONAL SENIOR CERTIFICATE

GRADE 12

COMPUTER APPLICATIONS TECHNOLOGY P1

FEBRUARY/MARCH 2015

MEMORANDUM/MARKING GUIDELINE

MARKS: 180

1

CENTRE NUMBER					FINAL MARK	

EXAMINATION								
NUMBER								
		•	•		•			

QUESTION	1	2	3	4	5	6	7	TOTAL
POSSIBLE MARK	28	22	18	31	40	20	21	180
CANDIDATE MARK								
MARKER CODE/ SIGNATURE								
MODERATED MARK								

This memorandum/marking guideline consists of 13 pages.

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Please turn over

NSC – Memorandum/Marking Guideline
EXAMINATION
NUMBER

QUESTION 1

File name: 1Energy_Energie

Total Q1: 28

40-0					
No	Criteria	N	laxim Marl		Candidate Mark
1.1.1	 Cover page/Title page Any page border added ✓ 	1		1	
	(Note to marker: Border can appear <u>only</u> on first page.)				
1.1.2	 Cover page/Title page Watermark appears <u>only</u> on first page ✓ 	1		1	
1.2	 Table of contents Automatic Table of Contents inserted ✓ Three levels of headings appear ✓ Correct styles used: 	1 1		3	
	Title, Heading 1 and Heading 2 styles ✓	1			
	(Note to marker: All three levels must be inserted correctly in order to obtain the last mark.)				
1.3	 Page numbering Page numbers have been inserted in the header ✓ 	1		3	
	 Automatic page numbering starts as 1 on the second page ✓ 	1		_	
	 Page numbering does not appear on the first page ✓ 	1			
1.4	 Shape fill 'Social' shape has been filled with the picture 1Social_Sosiaal ✓ 	1		1	
	(Note to marker: Accept if any of the other images have been used to fill the shape.)				
1.5	 Hyperlink Hyperlink applied on word 'resources' ✓ 	1		2	
	 Linked to heading 'Where does our energy come from?' 	1		_	
	(Note to marker: Allocate the marks if the candidate created a bookmark and linked the text to the bookmark.)				
1.6	 Table Text was correctly converted to table ✓ Any table style applied to the table other than the 	1		2	
	 Any table style applied to the table other than the default ✓ 	1		-	
	(Note to marker: Do not award the first mark if only one column appears.)				

hnology/P1 NSC –	Ме	mo	ran	dur	3 n/№	1ark	king	l Gi	uide	eline	е	
EXAMINATION NUMBER												

			1	1	[]
1.7	 Citation Citation created ✓ Title – SMART LIVING HANDBOOK, Year – 2011 ✓ APA style applied ✓ 	1 1 1		3	
	(Note to marker: Allocate second mark if only the title or the year has been inserted.)			-	
1.8	 Caption Automatic caption changed from table to figure ✓ Caption appears with the text 'Figure1: Electricity' ✓ 	1		2	
1.9	 Bullets Bullets formatted to a picture ✓ 1Bullet_Kolpunt picture used to format bullets ✓ 	1 1		2	
	(Note to marker: Accept if only one bullet is changed.)				
1.10	 Style New style named Energy ✓ Font size set to 16 pt ✓ Font colour changed to red ✓ 'Energy' style applied to heading 'Decommissioning' ✓ 	1 1 1 1		4	
1.11	 Find and Replace All occurrences of the whole word 'sustainnable' have been replaced with the word 'sustainable' ✓ Highlighted ✓ (Note to marker: 2 replacements expected.) 	1		2	
1.12	 Widow/Orphan Widow/Orphan control setting has been unchecked for third column in table ✓ 	1		1	
1.13	 Table of Figures/Illustration Index Table of Figures/Illustration Index updated ✓ 	1		1	
	 (Notes to marker: Check that the 'Imported gas' figure has been added to the table to mark this question. Page numbers may differ.) 				
	Total for QUESTION 1			[28]	

EXAMINATION NUMBER

QUESTION 2

File name: 2School_Skool

Total Q2: 22

No	Criteria	М	axin Mar		Candidate Mark
2.1	 Page orientation Only the first page changed to landscape ✓ 	1		2	
	 Section break inserted and second page appears in portrait 	1		-	
2.2	 Page border Top margin of page border changed to 17 pt ✓ From edge of page ✓ 	1		2	
2.3	 Horn edge of page ↓ Heading centred Heading has been centred horizontally ✓ 	1		1	
2.4	Columns	-		3	
	 Selected text displayed in three columns ✓ Spacing between columns set to 0.6 cm ✓ 	1 1			
	 Column break inserted before the headings 'Switch off at the socket!' and 'Turn off the lights' ✓ 	1			
	 (Notes to marker: Do not penalise if a line between columns was added. 			-	
	 Allocate the third mark if only one column break was inserted.) 				
2.5	Callout shape			3	
	 Text box has been changed to callout shape ✓ Grey fill colour applied to shape ✓ 	1		-	
	 Shape sized to include all the original information so it is clearly visible ✓ 	1		-	
	(Note to marker: Accept any similar callout shape.)				
2.6	Grouping			2	
	 Pictures moved to correct position/order ✓ Pictures grouped as one object ✓ 	1 1		-	
2.7	 Hyphenation Hyphenation set to automatic ✓ 	1		1	
2.8	Survey Form			4	
	 Three leader tab lines have been removed Tout form field time of Age abanged to Number time. 	1			
	 Text form field type of Age changed to Number type ✓ Blue placeholder replaced with a drop-down list ✓ 	1			
	 Items appear as Moderate, Mild, Excessive ✓ 	1			
2.9	 Symbol/Shape Correct symbol inserted next to 'Use Electricity Sparingly' ✓ 	1		1	
2.10	Watermark			3	
	 Watermark inserted on any page ✓ 	1		-	
	 2Back_Agter picture inserted ✓ Scale is set to 120% ✓ 	1 1			
	Total for QUESTION 2			[22]	

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EXAMINATION NUMBER												

QUESTION 3

File name: 3Individ

Total Q3: 18

- 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 answers.
- Named ranges can be used instead of cell references.

No	Criteria	Ν	/laximum Mark	Candidate Mark
Main_	Hoof worksheet			
3.1	Cell B3: = TODAY() OR NOW() ✓	1	1	
3.2	Cell B4: =DATE(YEAR(B3)+2,MONTH(B3)+3,DAY(B3)) • DATE function ✓ • (YEAR(B3)+2 ✓ • MONTH(B3)+3 ✓ • DAY(B3)) ✓ (Note to marker: Accept any other suitable method.)	1 1 1 1	4	
3.3	Cell B7: =CONCATENATE(LEFT(A7,3),J7) OR =LEFT(A7,3)&J7 • CONCATENATE function OR & sign ✓ • LEFT ✓ (A7,3) ✓ • J7 ✓	1 2 1	4	
3.4	Cell C19: =MODE(C7:I18) ✓	1	1	
3.5	 Column I: Data Validation Validation criteria: Allow whole number ✓ Criteria: <= ✓ 100 ✓ Any suitable error message ✓ 	1 1 1 1	4	
3.6	 Page Setup Print area set to A1:J19 ✓ Gridlines – 'Print' checked in page setup ✓ 	1	2	
Trans	p worksheet			
3.7	 Transp worksheet Data copied from range A14:I16 from Main_Hoof worksheet to Transp worksheet ✓ Data correctly displayed/transposed ✓ 	1	2	
	Total for QUESTION 3		[18]	

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QUESTION 4

File name: 4Countries_Lande

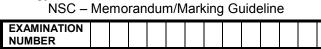
Total Q4: 31

- 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 answers.
- Named ranges can be used instead of cell references.

Criteria			Candidate Mark	
on_Koolstof worksheet				
 Carbon_Koolstof tab: Tab changed to any colour other than the original colour ✓ 	1	1		
 Cell A1: Comment added ✓ Comment text inserted: 'Carbon released'✓ (Note to marker: Ignore spelling.) 	1	2		
 Cell C10: = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2,FALSE) OR = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2,0) LOOKUP value: B10 ✓ Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A1:B20) Column index number: 2 ✓ Range_Lookup: False OR 0 ✓ OR = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2) LOOKUP-value: B10 ✓ Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20,2) LOOKUP-value: B10 ✓ Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A1:B20) Column index number: 2 ✓ Data in range A2:B20 is sorted in alphabetical order in the Capital_Hoofstad worksheet according to country ✓ 	1 1 1	4		
	n_Koolstof worksheet Carbon_Koolstof tab: • Tab changed to any colour other than the original colour ✓ (Note to marker: The original tab colour was white.) Cell A1: • Comment added ✓ • Comment text inserted: 'Carbon released'✓ (Note to marker: Ignore spelling.) Cell C10: = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2,FALSE) OR = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2,0) • LOOKUP value: B10 ✓ • Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A1:B20) • Column index number: 2 ✓ • Range_Lookup: False OR 0 ✓ OR = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2) • LOOKUP-value: B10 ✓ • Table array: Capital_Hoofstad!A2:B20,2) • Column index number: 2 ✓ • DotkuP-value: B10 ✓ • Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20 × OR Tabl	Criteria Image: Colspan="2">Criteria Image: Colspan="2">Criteria Carbon_Koolstof tab: Tab changed to any colour other than the original colour ✓ (Note to marker: The original tab colour was white.) Cell A1: Comment added ✓ 1 Comment text inserted: 'Carbon released'✓ 1 (Note to marker: Ignore spelling.) 1 Cell C10: = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2,FALSE) OR 1 ■ VLOOKUP(B10,Capital_Hoofstad!A2:B20,2,0) 1 1 Column index number: 2 ✓ Range_Lookup: False OR 0 ✓ 1 Column index number: 2 ✓ NLOOKUP(B10,Capital_Hoofstad!A2:B20,2) LOOKUP-value: B10 ✓ 1 Column index number: 2 ✓ NLOOKUP(B10,Capital_Hoofstad!A2:B20,2) 1 LOOKUP(B10,Capital_Hoofstad!A2:B20,2) LOOKUP-value: B10 ✓ 1 Column index number: 2 ✓ 1 <td col<="" td=""><td>m_Koolstof worksheet Carbon_Koolstof tab: • Tab changed to any colour other than the original colour ✓ (Note to marker: The original tab colour was white.) Cell A1: • Comment added ✓ • Comment text inserted: 'Carbon released'✓ 1 (Note to marker: Ignore spelling.) Cell C10: = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2,FALSE) OR = VLOOKUP value: B10 ✓ • Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20,2,0) • Column index number: 2 ✓ • Range_Lookup: False OR 0 ✓ OR = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2) • Column index number: 2 ✓ • Range_Lookup: False OR 0 ✓ OR = VLOOKUP(B10,Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20 ✓ OR</td></td>	<td>m_Koolstof worksheet Carbon_Koolstof tab: • Tab changed to any colour other than the original colour ✓ (Note to marker: The original tab colour was white.) Cell A1: • Comment added ✓ • Comment text inserted: 'Carbon released'✓ 1 (Note to marker: Ignore spelling.) Cell C10: = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2,FALSE) OR = VLOOKUP value: B10 ✓ • Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20,2,0) • Column index number: 2 ✓ • Range_Lookup: False OR 0 ✓ OR = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2) • Column index number: 2 ✓ • Range_Lookup: False OR 0 ✓ OR = VLOOKUP(B10,Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20 ✓ OR</td>	m_Koolstof worksheet Carbon_Koolstof tab: • Tab changed to any colour other than the original colour ✓ (Note to marker: The original tab colour was white.) Cell A1: • Comment added ✓ • Comment text inserted: 'Carbon released'✓ 1 (Note to marker: Ignore spelling.) Cell C10: = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2,FALSE) OR = VLOOKUP value: B10 ✓ • Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20,2,0) • Column index number: 2 ✓ • Range_Lookup: False OR 0 ✓ OR = VLOOKUP(B10,Capital_Hoofstad!A2:B20,2) • Column index number: 2 ✓ • Range_Lookup: False OR 0 ✓ OR = VLOOKUP(B10,Capital_Hoofstad!A2:B20 ✓ OR Table array: Capital_Hoofstad!A2:B20 ✓ OR

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	EXAMINATION NUMBER		
4.4	Cell F22: = SUMIF(D3:D21,"*America",F3:F21) • SUMIF function ✓ • Criteria range: (D3:D21) ✓ • Criteria: "*✓ America" ✓ • Sum range: (F3:F21) ✓	1 1 2 1	5
	OR =SUMIF(D3:D21,"South America",F3:F21) + SUMIF(D3:D21,"North America",F3:F21) • SUMIF function ✓ • Criteria range: (D3:D21) ✓ • Sum range: (F3:F21) ✓ • Both criteria included ✓ ✓		
4.5	Cell H3: =IF(G3>=\$F\$24,"High Risk","Low Risk") OR =IF(G3<\$F\$24,"Low Risk","High Risk") OR =IF(G3>=AVERAGE(\$G\$3:\$G\$21),"High Risk", "Low Risk")		5
	 OR =IF(G3<average(\$g\$3:\$g\$21),"low "high="" li="" risk")<="" risk",=""> IF function ✓ Condition G3 >=F24 OR Average(G3:G21) and value "High Risk" ✓ Condition G3<f24 "low="" and="" average(g3:g21)="" li="" or="" risk"="" value="" ✓<=""> Absolute addressing \$F\$24 OR (\$G\$3: \$G\$21) ✓ Formula copied to cells H4 to H21 ✓ </f24></average(\$g\$3:\$g\$21),"low>	1 1 1 1 1	
4.6	Cell J3: =I3/SUM(I3:I21)*100 OR =I3/SUM(I3:I21)% • I3 ✓ • / ✓ SUM(I3:I21) ✓ • *100 OR cell formatted as percentage ✓ • Formatted to 4 decimal places ✓	1 2 1	5

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	EXAMINATION NUMBER					
4.7	Cell F26: =F3/E3*POWER(I3,5) • F3 \checkmark • /E3 \checkmark • * POWER(I3 \checkmark ,5) \checkmark OR =F3/E3*I3^5 • F3 \checkmark • /E3 \checkmark • *I3 \checkmark ^5 \checkmark	1 1 2	4			
	OR =F3/E3*I3*I3*I3*I3*I3 • F3 ✓ • /E3 ✓ • * I3 ✓ multiplied by itself 5 times ✓					
Nucle	ar_Kernkrag worksheet					
4.8	 Graph Horizontal axis title 'Country' inserted ✓ Highest column filled in a different colour ✓ Value data label set for France only ✓ Exponential trendline inserted ✓ Vertical axis scale set to automatically display the maximum value ✓ 	1 1 1 1 1	5			
	Total for QUESTION 4		[31]			



QUESTION 5

File name: 5Course_Kursus

Total Q5: 40

No	Criteria	ſ	Maxim Mark		Candidate Mark					
Table	Table: Cur_Kur									
5.1.1	 Field: Type_Tipe Drop-down field ✓ Options are Sust-Related and Sust-Focused ✓ 	1		12						
	 Field: Dept_Dept Field size 15 ✓ 	1								
	 Field: CourseID_KursusID Required property set to Yes ✓ Indexed properties set to Yes (no duplicates) ✓ Input mask: > ✓ LLL ✓ ? ✓ 000 ✓ 	1 1 1 1 1								
	 Field: Cost_Koste Format set to currency (Rand) or data type changed to Currency ✓ 	1								
	 Field: Avail_Beskik Format set to Yes/No ✓ Lookup display control changed to textbox ✓ 	1 1								
5.1.2	 Format table Gridlines removed ✓ Background colour of table changed to grey ✓ 	1 1		2						
Cours	e_Kursus									
5.2	 Export table Table Course_Kursus exported to word processing type document ✓ Saved as 5Exp_Uit ✓ (Note to marker: Accept any document type that will open 	1 1		2						
0	in a word processor.)									
5.3	 r: qry5_3 <i>Title_Titel, Cost_Koste</i> and <i>VATInc</i> fields are displayed ✓ Calculated field name: <i>VATInc:</i> ✓ [Cost_Koste] ✓ * ✓ 1.14 ✓ OR 14/100+[Cost_Koste] OR 114/100 OR 0.14+[Cost_Koste] 	1 1 1 1		5						

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	NUMBER	
Query	: qry5_4	
5.4	 Criteria <i>Title_Titel</i> = "*sustainable* " Both wildcards (*) ✓ sustainable ✓ <i>Student_Student</i> field: >= 60 ✓ (>59) AND ✓ <100 ✓ (<=99) (Note to marker: 2 records expected.) 	5 2 1 1 1 1
Query	: qry5_5	
5.5	 Fields included: Dept_Dep, Cost_Koste, Title_Titel, Avail_Beskik ✓ Dept_Dept = "ACCT" ✓ Avail_Beskik = Yes ✓ OR 1 OR True OR -1 Title_Titel field sorted ascending ✓ 	4 1 1 1 1 1
Form:	frm5_6	
5.6	 Only CourseID_KursusID, Title_Titel, Avail_Beskik fields included ✓ Label in form header changed to 'Courses' ✓ Date inserted as field in form footer ✓ 	1 3 1 1 1 1
Repor	t: rpt5_7	
5.7	 Report data source changed to qry5_7 ✓ Grouped on Avail_Beskik field ✓ Properties changed to 'keep whole group together on page' ✓ Function inserted in group footer or group header ✓ =count ✓ ([<i>Title_Titel</i>]) ✓ OR =count ✓ (*) ✓ Suitable label (must refer to number of courses) ✓ 	1 7 1 - 1 - 1 - 2 - 1 - 1 -
	Total for QUESTION 5	[40]

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QUESTION 6

File name: 6Tips_Wenke

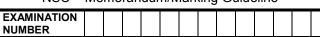
Total Q6: 20

- This question should be marked from the browser as far as possible, unless otherwise indicated or if it cannot be seen on the browser.
- A maximum of 1 mark will be deducted if one or more closing tags are omitted.
- The code of the candidates who use a word processor will contain additional unnecessary tags. Markers will need to work through the code to check for the answers provided below.

No	Criteria	Γ	/laxim Marl	Candidate Mark	
6.1	Title <title>Energy Tips</title>			2	
	 'Energy Tips' appears ✓ In the browser tab ✓ 	1 1			
6.2	Background colour <body bgcolor="white"></body>			1	
	 Background colour changed to white ✓ 	1			
6.3	Heading and alignment <h1 align="center">Energy Saving Tips</h1>			2	
	 'Energy Saving Tips' appear as heading 1√ 'Energy Saving Tips' centred √ 	1 1			
6.4	Horizontal line size <hr color="yellow" size="10"/>			1	
	 Line size set to 10 ✓ 	1			
6.5	Table: Row and Column 			4	
	Tip 1 Leaving a computer monitor on overnight wastes as much energy as making 800 A4 photocopies!				
	 Font of entire table changed to Arial ✓ Row inserted at the top of the table ✓ Text 'Tip 1' appears in the first cell of the new row ✓ Text 'Leaving a computer monitor on overnight 				
	wastes as much energy as making 800 A4 photocopies!' appears in the second cell in the new row ✓	1			

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6.6	<pre>Image: Height and Width <img <br="" height="200" src="6Save_Spaar.jpg"/>width="200"> • Image appears below the table ✓ • Image displays correctly ✓ • Height = 200 ✓ • Width = 200 ✓</pre>	1 1 1 1	4	
	(Note to marker: Mark this from the HTML code.)			
6.7	Ordered list Change a light! Fight the light! Don't leave it on! Shocking battery power 		2	
	 Bulleted list changed to numbered list ✓ Font size of list items changed to 6 ✓ (Note to marker: Mark the second bullet from the HTML code.) 	1 1		
6.8	Link Link to Google		4	
	 Link text 'Link to Google' inserted ✓ Between paragraph tags ✓ Link moves to 'www.google.com' ✓ Link works correctly ✓ 	1 1 1 1		
	(Note to marker: The link will work correctly if the web browser opens and the address displays in the address bar. No Internet access is needed.)			
	Closing tag(s) or brackets omitted	-1		
	Total for QUESTION 6		[20]	



QUESTION 7

No

File names: 7Act_Akt, 7Temp and 7Video

Criteria

7Act Akt 7.1 Extraction 1 7Video file extracted (7Video.mp4 appears in 1 examination folder) </ **Cross-reference** 7.2.1 3 1 Cross-reference created ✓ 1 On the text 'Temperatures' ✓ • 1 Linked to bookmark called 'Graph' ✓ 7.2.2 Equation 2 1 Equation adjusted to include Kwh on top ✓ 1 Day included below Kwh ✓ 7.2.3 Shape added 2 1 Shape with text 'Human Resources' added ✓ • 1 In the correct position ✓ (Note to marker: Ignore spelling.) 7Temp 7.3 Graph/Chart in 7Temp 6 Years sorted in ascending order ✓ 1 1 Duplicate values deleted ✓ 1 Top 3 temperatures ✓ • 1 appear with a border 🗸 1 Graph inserted in 7Act_Akt document ✓ 1 Reduced to fit in third column ✓ • 7Act Akt 7.4 Calculation in table 2 =AVERAGE ✓ 1 • 1 (ABOVE) ✓ • 7.5 **Text form field** 2 1 Maximum characters is set to 30 ✓ 1 Default text added as 'Add your name here' ✓ 7.6 Author properties 3 Author property of document changed to examination • 1 number 🗸 1 Author field inserted next to 'Created by:' ✓ 1 Displays in capital letters ✓ **Total for QUESTION 7** [21]

TOTAL

Maximum

Mark

Total Q7: 21

Candidate

Mark

180

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