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NATIONAL SENIOR CERTIFICATE

GRADE 12

COMPUTER APPLICATIONS TECHNOLOGY P1

NOVEMBER 2016

MEMORANDUM/MARKING GUIDELINES

MARKS: 180

CENTRE NUMBER							
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FINAL MARK	
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EXAMINATION NUMBER													
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QUESTION	1	2	3	4	5	6	7	TOTAL
POSSIBLE MARK	30	22	25	25	38	20	20	180
MARKER								
SM								
CM								
IM/EM								

This memorandum/marking guideline consists of 15 pages.

EXAMINATION
NUMBER

IGNORE SPELLING IN ALL CASES WHERE IT WOULD NOT HAVE ANY IMPACT ON THE ANSWER.

QUESTION 1**File name: 1Metal****Total Q1: 30**

No	Criteria	Maximum Mark			Candidate Mark
1.1.1	First page: 'Precious Metals' <ul style="list-style-type: none"> Font type changed to 'Verdana' ✓ Strikethrough effect removed ✓ 	1		2	
		1			
1.1.2	Picture <ul style="list-style-type: none"> First image flipped for text to read from left to right ✓ 	1		1	
1.1.3	Picture <ul style="list-style-type: none"> Height and width set to exactly 5 cm x 5 cm (or 4.57 x 5 or 5 x 5.47 if aspect ratio still checked) ✓ Aspect ratio unchecked (if 5 cm x 5 cm allocate mark) ✓ 	1		2	
		1			
1.1.4	First page <ul style="list-style-type: none"> Cover page/some pages/all pages are vertically aligned as 'center' ✓ 	1		1	
1.2	'Metal' style <ul style="list-style-type: none"> 'Coin' style changed to 'Metal' ✓ 	1		1	
1.3	Table of contents <ul style="list-style-type: none"> Table of contents updated (see heading 'Bullion') ✓ Four levels display (see 'Annexure A' headings) ✓ 	1		2	
		1			
1.4	Hyperlink <ul style="list-style-type: none"> Hyperlink removed from the word 'nuggets' ✓ <p>(Note to marker: Do not award mark if the word 'nuggets' is deleted.)</p>	1		1	
1.5	Table <ul style="list-style-type: none"> Row 2 merged ✓ and text centred ✓ Palladium shape filled with 'Gold, Accent, Lighter 60%' or '80%' (OR one shade lighter (blue or gold)) ✓ Any column border changed to double line/thick border line ✓ Formula field insert: =SUM(Above) ✓ Formula formatted to display comma separator 000,000,000 OR ###,###,### OR #,##0 ✓ Metals measured in tons sorted ✓ In descending order ✓ according to number 	2		8	
		1			
		1			
		1			
		1			
		1			
		1			
		1			

EXAMINATION
NUMBER**QUESTION 2****File name: 2Pal****Total Q2: 22**

No	Criteria	Maximum Mark			Candidate Mark
2.1	Page border/Watermark <ul style="list-style-type: none"> Any page border added to the document ✓ 2PalMetal ✓ image inserted as washout watermark ✓ Scaling of watermark/picture is set to 150% ✓ 	1		4	
		1			
		1			
		1			
2.2	Bookmark <ul style="list-style-type: none"> 'History of Palladium' linked to 'History' bookmark ✓ Bookmark 'Applications' removed ✓ <i>(Note to marker: Do not award second mark if the text has been deleted.)</i>	1		2	
		1			
2.3	Text box and callout shape <ul style="list-style-type: none"> Text box changed to any callout shape ✓ Text in shape/text box reads from bottom to top ✓ All text clearly visible ✓ Position of shape/text box fixed to its position page ✓ <i>(Note to marker: 'Move object with text box' should be unchecked to allocate fourth mark.)</i>	1			
		1			
		1			
		1			
2.4	Caption <ul style="list-style-type: none"> Caption label 'Picture' used <i>(do not accept typed text)</i> ✓ Caption added with caption text ✓ ('Beautiful rings') Caption placed above image ✓ 	1		3	
		1			
		1			
2.5	Form controls <ul style="list-style-type: none"> Page break/Section break (Next page)/Page break before inserted before 'Quiz' ✓ 'Full Name' text form field maximum length set to 12 ✓ 'Full Name' text form field format set to 'First capital' ✓ Any checkbox form field added ✓ Any dropdown form field added ✓ Option values set to Russia, South Africa, Ethiopia <i>(accept if only some options entered)</i> ✓ 	1		6	
		1			
		1			
		1			
		1			
		1			
2.6	Table of figures (Use Alt + F9 to mark) <ul style="list-style-type: none"> Any automatic table of figures inserted ✓ 'Simple' format used for table of figures ✓ <i>(sentence case, in bold)</i> Page numbers don't display in table of figures ✓ 	1		3	
		1			
		1			
	Total for QUESTION 2			[22]	

EXAMINATION NUMBER																			
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QUESTION 3**File name: 3Platinum****Total Q3: 25**

- 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	Maximum Mark			Candidate Mark
Platinum/Sheet1 worksheet					
3.1	Rename worksheet <ul style="list-style-type: none">'Sheet1' renamed to 'Platinum' ✓	1		1	
3.2	Cells A1:E1: <ul style="list-style-type: none">Cells A1:E1 merged ✓Font size is 16 ✓Any gradient fill added to cells A1:E1 (not normal fill) ✓	1		3	
		1			
		1			
3.3	Cell E2: <ul style="list-style-type: none">Comment removed from cell E2 ✓	1		1	
3.4	Cell B6: =SUM(B3:B5) (accept only if a function was used) ✓	1		1	
3.5	Cell E3: =(D3-B3)/B3*100 <ul style="list-style-type: none">Correct cells: D3-B3 OR B3-D3✓Correct use of brackets ✓Division: /B3 OR D3 relative to 1st bullet ✓*100 ✓ (accept formatting as a percentage instead)	1		4	
		1			
		1			
		1			
3.6	Conditional formatting: Cells B8:D11 <ul style="list-style-type: none">Conditional formatting applied to cells B8:D11 ✓Top/Bottom rule ✓ set to 40 ✓ % ✓ (or values that rank in top 4)Any border applied ✓	1		5	
		3			
		1			

EXAMINATION NUMBER																			
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3.7	Chart/Graph <ul style="list-style-type: none"> Data selection extended to cells A3:D5 OR A2:D5 ✓ Data for 'South Africa' filled with 3Platinum image ✓ Any stacked effect applied ✓ Legend moved to bottom ✓ Vertical axis display years (2014, 2015 and 2016) ✓ 	1 1 1 1 1		5	
Qual_Kwal worksheet					
3.8	Cell D10: (Check for building blocks) =LEFT(B1,TRUNC(B10/550)) OR =LEFT(B1,INT(B10/550)) OR =LEFT(B1,ROUNDDOWN(B10/550),0) OR =RIGHT(B1,TRUNC(B10/550)) OR =MID(B1,1,(TRUNC(B10/550))) OR =IF(B10/550>=5,"*****",IF(B10/550>=4,"****",IF(B10/550>=3,"***",IF(B10/550>=2,"**",""))))) <ul style="list-style-type: none"> Function(s) used correctly ✓ Used weight ✓ to determine the correct number of stars ✓ Extract correct number of stars for all possibilities ✓ Display stars for all possibilities ✓ <p><i>(Notes to marker:</i></p> <ul style="list-style-type: none"> <i>Accept any valid variation of the nested IF or LOOKUP functions. (Nested IF ✓, division/values ✓✓, conditions ✓, outcomes ✓)</i> <i>Check for building blocks.)</i> 	1 1 1 1 1		5	
	Total for QUESTION 3			[25]	

EXAMINATION NUMBER																			
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QUESTION 4**File name: 4Jewel_Juweel****Total Q4: 25**

- 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	Maximum Mark			Candidate Mark
Jewel_Juweel worksheet					
4.1	Row 3: Formatting <ul style="list-style-type: none">Any text wrapped ✓	1		1	
4.2	Cell A5: =CONCATENATE(MID(C5,2,3),B5) OR =MID(C5,2,3)&B5 <ul style="list-style-type: none">CONCATENATE function OR & ✓MID ✓ (C5,2,3) OR appropriate arguments ✓B5 ✓	1 2 1		4	
4.3	Cell D5: (Check for building blocks) =VLOOKUP(C5,Qual_Kwal!\$A\$1:\$E\$6, RANDBETWEEN(1,4)+1) OR =VLOOKUP(C5,Qual_Kwal!\$A\$3:\$E\$6, RANDBETWEEN(1,4)+1) OR =VLOOKUP(C5,Qual_Kwal!\$A\$3:\$E\$6,(RAND()*3+1)+1) OR =VLOOKUP(C5,Qual_Kwal!\$A\$1:\$E\$6, RANDBETWEEN(2,5)) <ul style="list-style-type: none">Lookup value: C5 ✓Table array: Qual_Kwal!A1:E6 OR Qual_Kwal!\$A\$1:\$E\$6 ✓ (A3:E6 can also be used)Column index number OR RAND() OR RANDBETWEEN ✓Upper boundary (2) OR (1)+1✓Lower boundary (5) OR (4)+1✓	1 1 1 1 1 1		5	

EXAMINATION NUMBER																			
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4.4	<p>Cell F4: =IF(C4="Silver",IF(H4<>"", "*", ""), "") OR =IF(C4="Silver",IF(H4="", "", "*"), "") OR =IF(AND(C4="Silver",H4<>""), "*", "") OR =IF(C4="Silver",IF(LEN(H4)>0, "*", ""), "") OR =IF(AND(C4="Silver",H4>0), "*", "")</p> <ul style="list-style-type: none"> Criteria 1: Check that the precious metal is silver: C4="Silver" ✓ Criteria 2: Check if a value appears in column H OR column I: H4<>" " ✓ Correct output (" ") if metal is not silver ✓ Correct output (" ") if metal is silver and no value appears in column H OR column I ✓ Correct output (" ") if metal is silver and value appears in column H OR column I ✓ Function copied to cells below (<i>any function</i>) ✓ <p>(Notes to marker:</p> <ul style="list-style-type: none"> Accept any valid test for blank cell including COUNTBLANK(H4) and LEN(H4)=0. Accept any other correct test if the correct corresponding output is displayed.) 	1 1 1 1 1 1 1		6	
4.5	<p>Cell M6: =SUMIF(B4:B53,"*ring*",J4:J53) OR =SUMIF(B4:B53,"Ring",J4:J53)+SUMIF(B4:B53,"Earrings",J4:J53) OR =SUMIFS(J4:J53,B4:B53,"*ring*")</p> <ul style="list-style-type: none"> SUMIF/SUMIFS function ✓ Criteria range: B4:B53 ✓ Criteria: "*ring*", OR "Ring" AND "Earrings" ✓ Sum range: J4:J53 ✓ 	1 1 1 1		4	

EXAMINATION NUMBER																			
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4.6	Cell M7: =COUNTIF(C4:C53,"Gold") <ul style="list-style-type: none"> • COUNTIF function ✓ • Range: C4:C53 ✓ • Criteria: "Gold" ✓ 	1 1 1		3	
4.7	Cell M8: =COUNTA(H4:H53) OR =COUNT(E4:E53)-COUNTBLANK(H4:H53) OR =COUNTA(B4:B53)-COUNTBLANK(H4:H53) OR =COUNTIF(H4:H53,"*") <ul style="list-style-type: none"> • Correct function ✓ • Correct range (accept column I) ✓ <p><i>(Note to marker: If COUNTA(range)-COUNTBLANK(range) structure is used accept columns (B,C,D,E,G,J) as correct range for COUNTA and columns (H or I) as correct range for COUNTBLANK.)</i></p>	1 1		2	
	Total for QUESTION 4			[25]	

EXAMINATION
NUMBER**QUESTION 5****File name: 5Inves****Total Q5: 38**

No	Criteria	Maximum Mark			Candidate Mark
Table: tbJewellery					
5.1.1	Field: <i>Metal</i> <ul style="list-style-type: none">Field size set to 33 ✓	1		1	
5.1.2	Field: <i>Stones</i> <ul style="list-style-type: none">Format changed to Yes/No OR Lookup ✓	1		1	
5.1.3	Field: <i>Grams</i> <ul style="list-style-type: none">Required property set to Yes ✓Validation Rule: >10 ✓ and ✓ <=80 ✓ OR Between 11 and 80Appropriate validation text inserted that refers to correct range (more than 10 and less than or equal to 80) ✓	1 3 1		5	
5.1.4	Field: <i>JewelleryType</i> <ul style="list-style-type: none">'Watch' option does not appear ✓'Bangle' option appears ✓In second position ✓	1 1 1		3	
5.1.5	Field: <i>JewelleryId</i> <ul style="list-style-type: none">Input Mask: LLLA09 LLL ✓ A ✓ 0 ✓ 9 ✓	1 1 1 1		4	
5.1.6	Field: <i>ValuationDate</i> Default value: DATE()+60 OR #2016-10-19# + 60 OR NOW()+60 OR #2016/12/18# <ul style="list-style-type: none">DATE() OR NOW() OR Actual date ✓+ 60 ✓	1 1		2	

EXAMINATION NUMBER																			
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Form: frm5_2

5.2	<ul style="list-style-type: none"> Label added ✓ and examination number in form header ✓ Combo box or list box added ✓ Combo box values based on tb5_2 ✓ and bound/linked to <i>InvestmentTerm</i> field ✓ (Row Source: tb5_2 OR Select[tb5_2]. [InvestmentTerm] FROM tb5_2 OR "Long"; "Medium"; "Short" AND Row Source Type: Table/Query OR Value List) 	1		5	
		1			
		1			
		1			
		1			

Query: qry5_3

5.3	<ul style="list-style-type: none"> <i>InvestorCountry</i>: Total: Group By ✓ Criteria: 'United States' ✓ (or correct variations) <i>NumberOfCoins</i>: Total: Sum ✓ 	1		3	
		1			
		1			

Field:	InvestorCountry	NoOfCoins
Table:	tblInvestor	tblInvestor
Total:	Group By	Sum
Sort:		
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:	"United States"	
or:		

Query: qry5_4

5.4	<ul style="list-style-type: none"> Fields displayed: <i>InvestorName</i>, <i>InvestorSurname</i>, <i>InvestmentDate</i> and/or new field (<i>CheckMatch</i>) ✓ Criteria <i>InvestmentDate</i>: >=#1975-01-01# ✓ OR >=#1974-12-31# AND ✓ <=#1989-12-31# ✓ OR <=#1990-01-01# OR Between #1975-01-01# AND #1989-12-31# OR Year([InvestmentDate]): Between 1975 and 1989 Calculated field: <i>CheckMatch</i>: ✓ [InvestorCountry] ✓ = ✓ [InvestorOrigin] ✓ OR <i>CheckMatch</i>: IIF(✓) ([InvestorCountry]=[InvestorOrigin](✓✓),"True","False") <p>(Note to marker: 50 records expected.)</p>	1		8	
		1			
		1			
		1			
		1			
		3			

Report: rpt5_5

5.5	<ul style="list-style-type: none">• Grouping changed to <i>InvestmentTerm</i> field ✓• Field <i>InvestmentTerm</i> appears in group header/footer ✓• Function inserted in <i>InvestorCountry</i> group footer or group header ✓• =COUNT ✓ ([<i>InvestorSurname</i>]) ✓ or any other field OR Count(*)• Suitable label (<i>must refer to number of investors</i>) ✓	1		6	
		1			
		1			
		2			
		1			
		1			
	Total for QUESTION 5			[38]	

EXAMINATION
NUMBER**QUESTION 6****File name: 6Rhodium****Total Q6: 20**

- 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	Maximum Mark			Candidate Mark
6.1	Heading, alignment and font colour <h1 align="center">Rhodium Investment: The Rarest of Precious Metals</h1> <ul style="list-style-type: none"> • 'Rhodium Investment: The Rarest of Precious Metals' appear as heading 1 ✓ • Alignment: center ✓ • Font colour: red ✓ <p>(Note to marker: Accept if font changes implemented with a paragraph tag.)</p>	1		3	
		1			
		1			
6.2	Horizontal line <hr width="90%"> <ul style="list-style-type: none"> • Horizontal line added ✓ • Line width set to 90% ✓ 	1		2	
		1			
6.3	Background image <body background="6Rh.jpg"> <ul style="list-style-type: none"> • background="6Rh.jpg" inserted correctly ✓ • In body tag ✓ 	1		2	
		1			
6.4	Unordered list and line break <ul type="square"> Diesel catalytic converters
 Non-diesel catalytic converters <ul style="list-style-type: none"> • Bulleted list added ✓ • Bullet type: square ✓ • Line break added between bullets (not paragraph) ✓ 	1		3	
		1			
		1			
		1			

EXAMINATION NUMBER																			
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6.5	Image: height, width and border <code></code> <ul style="list-style-type: none"> Height = 100 ✓ Width = 200 ✓ Border = 5 ✓ 	1 1 1		3	
6.6	Formatting: Bold and italics <code><i>South Africa</i> OR</code> <code><i>South Africa</i></code> <ul style="list-style-type: none"> Bold applied to 'South Africa' ✓ Italics applied to 'South Africa' ✓ 	1 1		2	
6.7	Link <code></code> <code>www.ResourceInvestor.com</code> <ul style="list-style-type: none"> Link text 'www.ResourceInvestor.com' inserted OR 'http://www.ResourceInvestor.com' ✓ Link 'href' added correctly ✓ <p>(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.)</p>	1 1		2	
6.8	Table: Cell spacing and colspan <code><table align="center" border="3" cellpadding = "10"></code> <code><tr> <td colspan = "3">Rhodium Prices</td></tr></code> <code><tr> <th>Metal</th></code> <code><th>Year</th></code> <code><th>Price</th></tr></code> <code><tr> <td>Rhodium</td></code> <code><td>2014</td></code> <code><td>R1 235</td></tr></code> <code></table></code> <ul style="list-style-type: none"> Cellspacing = 10 ✓ First row: colspan = 3 ✓ (appears as a 'merged' cell) Text appears in the first row ('Rhodium Prices') ✓ 	1 1 1		3	
	Closing tag(s) or triangular brackets omitted	-1			
	Total for QUESTION 6			[20]	

EXAMINATION
NUMBER**QUESTION 7****Total Q7: 20****File names: 7Data, 7DataImp, 7Gem_Edel, 7GemMerge, 7DOB, 7Answ_Antw**

No	Criteria	Maximum Mark			Candidate Mark
7Data					
7.1.1	Print Area <ul style="list-style-type: none">Print area set ✓	1		1	
7.1.2	Data validation: G2:G101 <ul style="list-style-type: none">Allow: Whole numbers ✓Data greater than or equal to 0 ✓	1 1		2	
7DataImp					
7.2	Data imported <ul style="list-style-type: none">All data (100 records) imported ✓ to Clients table in databaseColumn headings of worksheet used as field names ✓Table named as Clients ✓	1 1 1		3	
7Gem_Edel/7GemMerge					
7.3.1	Track changes <ul style="list-style-type: none">All track changes accepted ✓ (<i>'Birthstone Chart appears as 16 pt and bold'</i>)	1		1	
7.3.2	Footnote <ul style="list-style-type: none">Endnote converted to footnote ✓ <p>(Note to marker: No marks awarded if a footnote is added in addition to the existing endnote.)</p>	1		1	
7.3.3	Paragraph spacing <ul style="list-style-type: none">Spacing after set to 3 pt after ✓	1		1	
7.3.4	Tab setting: <<Birthstone_GeboorteSteen>> <ul style="list-style-type: none">Any leader tab set ✓To 8 cm ✓	1 1		2	
7.3.5	Mail merge <ul style="list-style-type: none">Text '<InvestorName_BeleggerNaam>' replaced with the field <<InvestorName_BeleggerNaam>> ✓Data source: Month criteria set to 10 ✓	1 1		2	
7GemMerge					
7.3.6	Merge completed <ul style="list-style-type: none">Mail merge completed ✓ (<i>see letters in 7GemMerge</i>)	1		1	

- Accept any method that will yield the correct answer.

EXAMINATION NUMBER																			
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- Allocate two marks for only the correct answer.
- If nothing appears in **7Answ_7Antw** or the answer is incorrect, check **7Coin_Munt** for the method/answer.

7Answ_Antw, 7Coin_Munt					
7.4.1	How many investors bought coins in any dollar currency? • 77 ✓ Method: ✓ • Filter on CoinFaceValue: Criteria: contains '\$' • OR Filter on CoinCurrency: Criteria: contains 'Dollar' • =COUNTIF(M2:M101,"*Dollar*") • Sort and count	1 1		2	
7.4.2	How many long term investors have a start date in September? • 3 ✓ Method: ✓ • Filter on InvestmentTerm: 'Long' AND Filter on StartDate: Dates in periods: 'September' • OR add =MONTH(E2) in an extra column – in this case done in column P and use function =COUNTIFS(D2:D101,"Long",P2:P101,"9")	1 1		2	
7.4.3	What is the name of the most popular occurring coin? • Maple Leaf OR Eagle ✓ Method: ✓ • 7 COUNTIF/SUMIF for every coin name e.g.=COUNTIF(J2:J101,"Maple Leaf") • First sort the data according to the coin name, and then use of the SUBTOTAL function to get a subtotal for each coin name • Pivot table • Use outline and get subtotal on <i>CoinName</i>	1 1		2	
	Total for QUESTION 7			[20]	
	TOTAL			180	