

## basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

## **COMPUTER APPLICATIONS TECHNOLOGY P1**

**NOVEMBER 2021** 

MARKING GUIDELINES

MARKS: 150

CENTRE NUMBER					FINA	L WARK		
EXAMINATION NUMBER								
	1			1	I	1		-
QUESTION	1	2	3	4	5	6	7	TOTAL
POSSIBLE MARK	25	20	21	19	35	15	15	150
CANDIDATE MARK								
MARKER CODE/ SIGNATURE								
MODERATED MARK								

These marking guidelines consist of 13 pages.

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EXAMINATION								
NUMBER								

• Check the accuracy and skill required before awarding a mark throughout.

QUESTION 1 File name: 1Health Total Q1: 25

No	Criteria Criteria	M	laximum Mark	Candidate Mark
1.1	Page size		1	
	<ul> <li>Page size set to A4 ✓</li> </ul>	1		
1.2	Line spacing: 2 <sup>nd</sup> paragraph – The following  • Line spacing set to Multiple, 1.15 ✓	1	1	
1.3	<ul> <li>Find and Replace: (Expect 5 occurrences)</li> <li>Only exact/lowercase text 'ozone' replaced ✓</li> <li>'ozone' appears in Arial Narrow font ✓</li> <li>'ozone' appears in Bold and Italic ✓</li> </ul>	1 1 1	3	
1.4	<ul> <li>Text box: Nitrogen dioxide from heart disease.</li> <li>Text box inserted ✓</li> <li>Size: 9 cm high by 8 cm wide ✓</li> <li>All data moved into text box ✓ (No mark if copied)</li> <li>Text box top left corner aligned to 'air' ✓ (Inspection)</li> </ul>	1 1 1	4	
1.5	<ul> <li>Columns: DOES IT MAKE fuels and vehicles.</li> <li>Text placed in two columns ✓</li> <li>Width of first column set to 8 cm ✓</li> <li>Width of space between columns 1 cm ✓</li> </ul>	1 1 1	3	
1.6	<ul> <li>Multilevel List: On the road keeping windows closed. (Note to marker: Mark from ruler)</li> <li>Multilevel List applied to given text ✓</li> <li>Level 1: Format 1, 2, 3 ✓ (No full stop or bracket)</li> <li>Level 1: Aligned at 0 cm ✓ text indent at 1 cm ✓</li> <li>Level 2: Format a), b), c) ✓</li> <li>Level 2: Aligned at 1 cm ✓ text indent at 2 cm ✓</li> </ul>	1 1 2 1 2	7	
1.7	<ul> <li>Source changed: UK Health Department</li> <li>Type of source: Website ✓</li> <li>URL: http://www.airquality.co.uk ✓</li> </ul>	1 1	2	
1.8	Bibliography  • (Any) automatic bibliography inserted ✓	1	1	
1.9	<ul> <li>Watermark</li> <li>Picture 1Clean watermark inserted ✓</li> <li>Scale: 150% ✓</li> </ul>	1 1	2	
1.10	Inspect document  ■ All hidden text removed ✓	1	1	
	Total for QUESTION 1		[25]	

EXAMINATION							
NUMBER							

- Check the accuracy and skill required before awarding a mark throughout.
- Ignore spelling in all cases where it would not have any impact on the answer.

QUESTION 2 File name: 2Marine Total Q2: 20

No	Criteria	N	laxim Mar		Candidate Mark
2.1	Small caps: UNESCO: Marine Pollution  • Font changed to Small caps ✓	1		1	
2.2	<ul> <li>ToC</li> <li>Table of Contents inserted ✓</li> <li>Heading 1 style: 1st heading: 'Marine Pollution' ✓</li> <li>'Marine Pollution' at top of the next page ✓</li> </ul>	1 1 1		3	
2.3	<ul> <li>Hyphenation</li> <li>Hyphenation options: None ✓ OR</li> <li>Paragraph formatting exceptions: Don't hyphenate</li> </ul>	1		1	
2.4	<ul> <li>Caption: Picture 1: © Malik Naumann   Marine Photobank</li> <li>Appropriate caption ✓ inserted (Alt + F9)</li> <li>Caption is the picture's Alt text: ✓</li> </ul>	1		2	
2.5	<ul> <li>Hyperlink: Picture 2: © Chris Deacutis</li> <li>Hyperlink removed from picture ✓ (Right click on image to check if hyperlink is removed)</li> </ul>	1		1	
2.6	<ul> <li>Image: Picture 4: © NOAA</li> <li>Restored to original colour ✓ (Not greyscale)</li> </ul>	1		1	
2.7	<ul> <li>Cross reference (Accept any picture &amp; page no.)</li> <li>Linked to (any) picture IOC UNESCO ✓</li> <li>Only page number displays ✓ (Alt + F9)</li> </ul>	1		2	
2.8	<ul> <li>Footnote</li> <li>Footnote inserted on 'UNEP' ✓</li> <li>Footnote numbering format set to A, B, C, ✓</li> <li>Footnote set to 'Restart each page' ✓</li> <li>Footnote text inserted ✓ (Environment Programme)</li> </ul>	1 1 1		4	
2.9	Field: NumWords (Alt + F9) {NUMWORDS \*MERGEFORMAT}  • NumWords field inserted ✓	1		1	
2.10	<ul> <li>Page numbering</li> <li>Automatic page numbering in Tildes format ✓</li> <li>Page numbering inserted in footer ✓</li> <li>TOC page and cover page not numbered, third page starts as number ~1~ ✓</li> <li>Page numbering continues on all remaining pages ✓</li> </ul>	1 1 1		4	
	Total for QUESTION 2			[20]	

<b>EXAMINATION</b>							
NUMBER							

QUESTION 3 File name: 3Projects Total Q3: 21

- 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, cells or '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		aximum Mark	Candidate Mark
Missi	ons/Sheet1 worksheet			
3.1	<ul> <li>Cell A1: Picture</li> <li>Picture 3Logo inserted ✓</li> <li>Fits cell A1 ✓ (Mark by inspection)</li> </ul>	1 1	2	
3.2	Cell A3: Fill  • Pattern fill is the same as cell A2 ✓	1	1	
3.3	<ul><li>Worksheet renamed</li><li>Sheet1 worksheet renamed to Missions ✓</li></ul>	1	1	
3.4	Cell F3: =COUNTIF(F6:F55,">55000")  • COUNTIF and range: (F6:F55) ✓  • Criteria: ">55000" ✓  OR ">R55000"  OR ">R55 000.00"	1	2	
3.5	Column G: Conditional Formatting  = \$C6:\$C55 = "Air"  OR  =\$C6 = "Air"  • Formula: ✓ =C6:C55 = "Air" ✓  • Absolute cell referencing not applied to rows:  \$C6:\$C55 OR C6:C55 ✓  • Conditional formatting applied to G6:G55 ✓  • Format: Any fill colour ✓	2 1 1 1 1	5	

<b>EXAMINATION</b>							
NUMBER							

3.6	Cell J6: =HLOOKUP(D6,Categories!\$B\$1:\$D\$2,2,TRUE) OR =LOOKUP(D6,Categories! \$B\$1:\$D\$2) OR =XLOOKUP(D6, Categories! \$B\$1:\$D\$1, Categories!\$B\$2:\$D\$2,,-1)		4	
	<ul> <li>LOOKUP function appropriately structured ✓ (HLOOKUP OR LOOKUP OR XLOOKUP)</li> <li>Lookup value: D6 ✓</li> <li>Table array: Categories!\$B\$1:\$D\$2 ✓ OR Categories!\$A\$1:\$D\$2</li> <li>OR Categories!B1:D2</li> <li>OR Categories!A1:D2</li> <li>Row index number: 2 ✓</li> </ul>	1 1 1 1		

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EXAMINATION							
NUMBER							

TODAY( OR =IF(E6> "Notify" OR =IF(E6< "*","Not OR =IF(DAY) IF(DAY)	)<=60,"No =TODAY() ,"*"),"Con FODAY()," ify")) S(E6,TODA (E6,TODA mplete TODAY()	AY())<=60  Notin  E6>=TO  E6-TOD	TODAY())<=60, te",IF(E6-TOD  "Complete", 0,"Notify","*"))	<b>AY()&gt;60,</b> * ODAY()+60		9	
	TOL	DAY()	TODAY()+60				
OUTPUT	Comp		Notify	*			
CRITERIA	K E6 < T	ODAY()	E6 >=TODAY() AND E6-TODAY() <=60	E6 > TODAY()+60 <b>OR</b> E6 >= TODAY()+60			
DESCRIPTION		date and the	Check for current date and whether the current date is within 60 days of E6	Check whether E6 is over 60 days after the current date			
<ul><li>First</li><li>Outp</li><li>Seco</li><li>Outp</li></ul>	tion: Neste condition • ut for first on nd condition ut for seco	condition on <a></a>		1 1 1 1 1			
· ·	ut for third • QUESTIC		I 7			[21]	

<b>EXAMINATION</b>							
NUMBER							

QUESTION 4 File name: 4Air Total Q4: 19

- 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, cells or '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	M	laxim Marl		Candidate Mark
Qualit	y worksheet				
4.1	Cell D3: =SMALL(E7:E153,2)			3	
	<ul> <li>Function: SMALL ✓</li> <li>Cell range: E7:E153 ✓</li> <li>2 ✓</li> </ul>	1 1 1			
4.2	Cell B7: Data Validation			1	
	Data validation source: \$J\$7:\$J\$8 ✓	1			
4.3	Cell G7: Text functions =LEFT(\$D\$4,RIGHT(F7,1)) OR =LEFT(\$D\$4,MID(F7,2,1)) OR =RIGHT(\$D\$4,RIGHT(F7,1)) OR =MID(\$D\$4,RIGHT(F7,1))			4	
	<ul> <li>Combination of text functions ✓</li> <li>Function: LEFT/RIGHT/MID ✓</li> <li>From the text in cell D4 ✓</li> <li>To extract correct number of characters from cell F7 ✓</li> <li>(Note to marker: Accept other text functions such as REPT and TEXT if used correctly.)</li> </ul>	1 1 1 1			
4.4	Print area			1	
	<ul> <li>Print area set to cell range: A6:H40 ✓</li> </ul>	1			

<b>EXAMINATION</b>							
NUMBER							

Graph	worksheet			
4.5	Cell H10 OR cell H2 =SUMIFS(Quality!H7:H153,Quality!C7:C153,"Eastern Cape",Quality!D7:D153,2018)		5	
	<ul> <li>Sum range: Quality!H7:H153 ✓</li> <li>Criteria range 1: Quality!C7:C153 ✓</li> <li>Criteria 1: "Eastern Cape" ✓</li> <li>Criteria range 2: Quality!D7:D153 ✓</li> <li>Criteria 2: 2018 ✓ OR "2018"</li> </ul> (Note to marker: Accept cell A2 or cell A10 if it refers to "Eastern Cape" and cell H1 if it refers to 2018.)	1 1 1 1		
4.6	<ul> <li>Chart/Graph</li> <li>Bar chart/graph created ✓</li> <li>Data selected: =Graph!\$A\$2:\$A\$10,Graph!\$F\$2:\$F\$10 ✓ OR =Graph!\$A\$1:\$A\$10,Graph!\$F\$1:\$F\$10</li> <li>Bars display from smallest to largest ✓</li> <li>Chart title: Health incidents in 2016 ✓</li> <li>Data labels appear on outside end of each bar ✓</li> </ul>	1 1 1 1	5	
	Total for QUESTION 4		[19]	

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EXAMINATION							
NUMBER							

QUESTION 5 File name: 5Save Total Q5: 35

No	Criteria		ximum ⁄lark	Candidate Mark
Table	: tbl5_1	<u> </u>		
5.1.1	Field: Coverage  • Field size changed to Decimal ✓	1	1	
5.1.2	<ul> <li>Field: PollutionType</li> <li>Display control: Combo Box ✓</li> <li>Row Source: 'Air', 'Land', 'Water' ✓</li> </ul>	1 1	2	
5.1.3	Field: Level  Validation rule: Between 100 And 1000 OR >=100 and <=1000 OR >99 and <1001  • 100 and above ✓  • And ✓  • 1000 and below ✓	1 1 1 1	3	
5.1.4	<ul> <li>Field inserted</li> <li>Field name: Evidence ✓</li> <li>Field type: Attachment, Hyperlink ✓</li> </ul>	1 1	2	
Form:	frm5_2			
5.2	<ul> <li>Form heading changed to 'Survey' ✓</li> <li>Only date ✓ appears in form footer ✓</li> <li>Ion theme applied to the form ✓</li> <li>YearBorn field format changed to Medium Date ✓</li> </ul>	1 2 1 1	5	
Query	v: qry5_3			
5.3	<ul> <li>Group by RecyclingActivity ✓</li> <li>Function AVG in DropOff ✓</li> <li>Average value displays no decimal places ✓</li> </ul>	1 1 1	3	
Query	r: qry5_4			
5.4	<ul> <li>Only Name, Surname, (YearBorn,) Knowledge, RecyclingActivity, DropOff fields display ✓</li> <li>Sorted by Surname ascending ✓</li> <li>Knowledge field criteria: 'Yes' ✓</li> <li>OR ✓</li> <li>RecyclingActivity field criteria: 'Very Active' ✓</li> <li>AND ✓</li> <li>DropOff field criteria: 15 ✓</li> <li>(Expected number of records: 113)</li> </ul>	1 — 1 — 1 — 1 — 1 —	7	

10 NSC Marking Guidelines

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<b>EXAMINATION</b>							
NUMBER							

Query	: qry5_5			
5.5	<ul> <li>YearBorn field criteria: &gt;#1990/12/31# ✓         OR &gt;=#1991/01/01#         OR YEAR([YearBorn])&gt;1990</li> <li>Calculated field: NewDrop:[DropOff]*10/100+[DropOff]         OR [DropOff]*110/100         OR [DropOff]*1.1         OR [DropOff]+[DropOff]*0.1         <ul> <li>NewDrop: ✓</li> <li>[DropOff] ✓</li> <li>* ✓</li> <li>10/100 + [DropOff] OR 110/100 OR 1.1 ✓</li> <li>(Expected number of records: 58)</li> </ul> </li> </ul>	1 1 1 1 1	5	
Repor	t: rpt5_6			
5.6	<ul> <li>DropOff field inserted and moved to correct position ✓</li> <li>Grouping inserted on RecyclingActivity ✓</li> <li>Any colour applied to the page header ✓</li> <li>Sorted by Surname ✓</li> <li>Function inserted in group header ✓</li> <li>= COUNT ✓ (*) ✓ OR any other field</li> </ul>	1 1 1 1 1 2	7	
	Total for QUESTION 5		[35]	

## 11 NSC Marking Guidelines

<b>EXAMINATION</b>							
NUMBER							

QUESTION 6 File name: 6\_1Clean, 6\_2Pollute Total Q6: 15

- This question should be marked from the HTML code.
- Numerical attribute values and single words do not need to be in inverted commas.

No	Criteria	N	laximur Mark	n	Candidate Mark	
6_1Cl	ean					
6.1.1	Title tags <title>12345678</title>			2		
	<ul> <li>Title tags ✓</li> <li>Examination number inserted ✓ between two tags</li> </ul>	1 1				
6.1.2	Font colour: Heading: The Global Crisis <h1><font color="red">The Global Crisis of Plastic Pollution </font></h1>			1		
	<ul> <li>Font set to a red colour ✓</li> </ul>	1				
6.1.3	Picture <img height="200" src="6_1Plastic.jpg" width="300"/>			2		
	<ul> <li>Attribute scr changed to src ✓</li> <li>File extension png changed to jpg ✓</li> </ul>	1 1				
6.1.4	Table: rowspan			3		
	Tons per year    China					
	<ul> <li>Only column inserted <td> </td></li> <li>Text 'Tons per year' inserted in first column ✓</li> <li>Rowspan="3" ✓</li> </ul>		1 1 1			

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EXAMINATION								
LAAMINATION								
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INUMBER	I	l	I	I				

6_2Pc	ollute			
5.2	   		6	
	<ul> <li>Hyperlink</li> <li>Tag for hyperlink correctly inserted ✓</li> <li>Horizontal line</li> <li>Horizontal rule tag ✓</li> <li>size="5" ✓ (Accept any size larger than "1")</li> <li>Unordered list</li> <li><ul> <li><ul><ul> <li><ul> <l><ul> <li><ul> <l><ul> <li><ul> <li><ul><ul> <li><ul> <li><ul> <li><ul> <li><ul> <li><ul> <li><ul> <li><u< td=""><td>1 1 1 1 1</td><td></td><td></td></u<></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></l></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></l></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul>	1 1 1 1 1		
	Closing tag(s) or triangular brackets and nesting correctly used. ✓	1	1	
	Total for QUESTION 6		[15]	

EXAMINATION							
NUMBER		İ			İ		İ

QUESTION 7 File names: 7Letter, 7Merge, 7Date, 7Picture Total Q7: 15

No	Criteria	Maxim Mark			Candidate Mark
7Lette	er, 7Merge				
7.1.1	<ul> <li>Form controls</li> <li>Form field set to Current Date ✓ (Alt + F9, Form text Date)</li> <li>'7' and '14' options appear in drop-down form field control ✓</li> </ul>	1		2	
7.1.2	<ul> <li>Mail merge (Expect 21 letters)</li> <li>7Letter linked to 7Company ✓ spreadsheet</li> <li>Recipients' list is filtered to</li> <li>Level = very high ✓</li> <li>Or ✓</li> <li>Level = high ✓</li> <li>Merge fields inserted for Company name and Level ✓</li> <li>Mail merge completed ✓</li> </ul> (SELECT * from 'Sheet1\$' WHERE 'Level'='very high' OR 'Level'='high'/'Level' LIKE '%high%')	1 1 1 1 1		6	
7Date	: Monthly worksheet		1	•	
7.2	Cell D3: =IF(AND(B3="Low",MONTH(C3)=11),A3," ") • Criteria: Test if the level is low ✓ • Criteria: Test if the month ✓ is 11 ✓	1 2		3	
7 3 w	orksheet				
7.3	Filter  • Filtered on column A: Very High ✓  • Filtered on column B: 2021 ✓  • Names sorted alphabetically ✓	1 1 1		3	
7Pict	ure				
7.4	<b>7Picture</b> file extracted ✓	1		1	
				[15]	
	TOTAL			150	