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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


FINAL MARK

| EXAMINATION <br> NUMBER |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


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

This memorandum/marking guideline consists of 13 pages.

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QUESTION 1
File name: 1Energy_Energie
Total Q1: 28

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

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

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QUESTION 2
File name: 2School_Skool
Total Q2: 22



- 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 | Maximum Mark |  | Candidate Mark |
| :---: | :---: | :---: | :---: | :---: |
| Main_Hoof worksheet |  |  |  |  |
| 3.1 | $\begin{aligned} & \text { Cell B3: } \\ & =\text { TODAY() OR NOW() } \end{aligned}$ | 1 | 1 |  |
| 3.2 | Cell B4: <br> $=$ DATE(YEAR(B3)+2,MONTH(B3)+3,DAY(B3)) <br> - DATE function <br> - (YEAR $(\mathrm{B} 3)+2 \checkmark$ <br> - $\operatorname{MONTH}(\mathrm{B} 3)+3 \checkmark$ <br> - DAY(B3)) $\sqrt{ }$ <br> (Note to marker: Accept any other suitable method.) | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | 4 |  |
| 3.3 | Cell B7: =CONCATENATE(LEFT(A7,3),J7) <br> OR =LEFT(A7,3)\&J7 <br> - CONCATENATE function OR \& sign $\checkmark$ <br> - LEFT $\checkmark(\mathrm{A} 7,3) \checkmark$ <br> - J7 $\sqrt{ }$ | 1 2 1 | 4 |  |
| 3.4 | $\begin{aligned} & \text { Cell C19: } \\ & =\text { MODE(C7:118) } \end{aligned}$ | 1 | 1 |  |
| 3.5 | Column I: Data Validation <br> - Validation criteria: Allow whole number $\checkmark$ <br> - Criteria: <= $\downarrow$ <br> - 100 r <br> - Any suitable error message $\checkmark$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | 4 |  |
| 3.6 | Page Setup <br> - Print area set to A1:J19 $\checkmark$ <br> - Gridlines - 'Print' checked in page setup $\checkmark$ | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 2 |  |
| Transp worksheet |  |  |  |  |
| 3.7 | Transp worksheet <br> - Data copied from range A14:I16 from Main_Hoof worksheet to Transp worksheet <br> - Data correctly displayed/transposed | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 2 |  |
|  | Total for QUESTION 3 |  | [18] |  |

## QUESTION 4

File name: 4Countries_Lande

- 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.


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| 4.4 | Cell F22: <br> = SUMIF(D3:D21,"*America",F3:F21) <br> - SUMIF function $\checkmark$ <br> - Criteria range: (D3:D21) $\checkmark$ <br> - Criteria: "* $\checkmark$ America" $\checkmark$ <br> - Sum range: (F3:F21) $\checkmark$ <br> OR <br> =SUMIF(D3:D21,"South America",F3:F21) + <br> SUMIF(D3:D21,"North America",F3:F21) <br> - SUMIF function $\checkmark$ <br> - Criteria range: (D3:D21) $\checkmark$ <br> - Sum range: (F3:F21) $\downarrow$ <br> - Both criteria included $\checkmark \checkmark$ | 1 1 2 1 |  | 5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4.5 | Cell H3: <br> =IF(G3>=\$F\$24,"High Risk","Low Risk") <br> OR <br> =IF(G3<\$F\$24,"Low Risk","High Risk") <br> OR <br> =IF(G3>=AVERAGE(\$G\$3:\$G\$21),"High Risk", "Low Risk") <br> OR <br> =IF(G3<AVERAGE(\$G\$3:\$G\$21),"Low Risk", "High Risk") <br> - IF function $\checkmark$ <br> - Condition G3 >=F24 OR Average(G3:G21) and value "High Risk" $\checkmark$ <br> - Condition G3<F24 OR Average(G3:G21) and value "Low Risk" $\checkmark$ <br> - Absolute addressing \$F\$24 OR (\$G\$3: \$G\$21) $\checkmark$ <br> - Formula copied to cells H 4 to $\mathrm{H} 21 \checkmark$ | 1 1 1 1 |  | 5 |  |
| 4.6 | Cell J3: =I3/SUM(13:\|21)*100 <br> OR =I3/SUM(I3:I21)\% <br> - 13 <br> - $/ \checkmark$ SUM(I3:I21) $\checkmark$ <br> - *100 OR cell formatted as percentage $\checkmark$ <br> - Formatted to 4 decimal places $\checkmark$ | 1 2 1 1 |  | 5 |  |

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QUESTION 5
File name: 5Course_Kursus
Total Q5: 40

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

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## Query: qry5_4

5.4

- Criteria

Title_Titel = "*sustainable* "
Both wildcards (*) $\checkmark$ sustainable $\checkmark$

- Student_Student field: >= $60 \checkmark$ (>59)

AND $\checkmark$ $<100 \checkmark$ (<=99)
(Note to marker: 2 records expected.)

| 2 | 5 |
| :---: | :---: |
|  |  |
| 1 |  |
| 1 |  |
| 1 |  |
|  |  |

Query: qry5_5

| 5.5 | - Fields included: Dept_Dep, Cost_Koste, Title_Titel, Avail_Beskik $\checkmark$ <br> - Dept_Dept = "ACCT" $\checkmark$ <br> - Avail_Beskik = Yes $\checkmark$ OR 1 OR True OR -1 <br> - Title_Titel field sorted ascending $\checkmark$ | 1 1 1 1 | 4 |  |
| :---: | :---: | :---: | :---: | :---: |
| Form: frm5_6 |  |  |  |  |
| 5.6 | - Only CourseID_KursusID, Title_Titel, Avail_Beskik fields included <br> - Label in form header changed to 'Courses' $\checkmark$ <br> - Date inserted as field in form footer $\checkmark$ | 1 1 1 | 3 |  |
| Report: rpt5_7 |  |  |  |  |
| 5.7 | - Report data source changed to qry5_7 $\checkmark$ <br> - Grouped on Avail_Beskik field $\checkmark$ Properties changed to 'keep whole group together on page' $\checkmark$ <br> - Function inserted in group footer or group header $\checkmark$ $=$ count $\checkmark$ ([Title_Titel]) OR $=$ count $\checkmark$ (*) $^{*} \checkmark$ <br> - Suitable label (must refer to number of courses) $\checkmark$ | 1 1 <br> 1 <br> 1 2 <br> 1 | 7 |  |
|  | 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 | Maximum Mark |  | Candidate Mark |
| :---: | :---: | :---: | :---: | :---: |
| 6.1 | Title <title>Energy Tips</title> <br> - 'Energy Tips' appears $\checkmark$ <br> - In the browser tab $\checkmark$ | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 2 |  |
| 6.2 | Background colour <body bgcolor="white"> <br> - Background colour changed to white $\checkmark$ | 1 | 1 |  |
| 6.3 | Heading and alignment <h1 align="center">Energy Saving Tips</h1> <br> - 'Energy Saving Tips' appear as heading $1 \checkmark$ <br> - 'Energy Saving Tips' centred $\checkmark$ | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 2 |  |
| 6.4 | Horizontal line size <hr color="yellow" size="10"> <br> - Line size set to $10 \checkmark$ | 1 | 1 |  |
| 6.5 | ```Table: Row and Column <font face ="Arial"> <table border="1"> <tr> <td>Tip 1</td> <td>Leaving a computer monitor on overnight wastes as much energy as making 800 A4 photocopies!</td> </tr> </font> \\ - Font of entire table changed to Arial \(\checkmark\) \\ - Row inserted at the top of the table \(\checkmark\) \\ - Text 'Tip 1' appears in the first cell of the new row \(\checkmark\) \\ - 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 \(\checkmark\)``` | 1 1 1 <br> 1 | 4 |  |

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| 6.6 | Image: Height and Width <img src="6Save_Spaar.jpg"height="200" width="200"> <br> - Image appears below the table <br> - Image displays correctly <br> - Height $=200 \checkmark$ <br> - Width $=200 \checkmark$ <br> (Note to marker: Mark this from the HTML code.) | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | 4 |  |
| :---: | :---: | :---: | :---: | :---: |
| 6.7 | ```Ordered list <ol><font size="6"> <li>Change a light!</li> <li>Fight the light!</li> <li>Don't leave it on!</li> <li>Shocking battery power</li> </font> </ol>``` <br> - Bulleted list changed to numbered list <br> - Font size of list items changed to $6 \checkmark$ <br> (Note to marker: Mark the second bullet from the HTML code.) | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 2 |  |
| 6.8 | Link <br> <a href="www.google.com">Link to Google</a> <br> - Link text 'Link to Google' inserted $\checkmark$ <br> - Between paragraph tags <br> - Link moves to 'www.google.com' $\checkmark$ <br> - Link works correctly <br> (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.) | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | 4 |  |
|  | Closing tag(s) or brackets omitted | -1 |  |  |
|  | Total for QUESTION 6 |  | [20] |  |

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## QUESTION 7

Total Q7: 21
File names: 7Act_Akt, 7Temp and 7Video

| No | Criteria | Maximum Mark |  | Candidate Mark |
| :---: | :---: | :---: | :---: | :---: |
| 7Act_Akt |  |  |  |  |
| 7.1 | Extraction <br> - 7Video file extracted (7Video.mp4 appears in examination folder) | 1 | 1 |  |
| 7.2.1 | Cross-reference <br> - Cross-reference created $\checkmark$ <br> - On the text 'Temperatures' $\checkmark$ <br> - Linked to bookmark called 'Graph' $\checkmark$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \end{aligned}$ | 3 |  |
| 7.2.2 | Equation <br> - Equation adjusted to include Kwh on top $\checkmark$ <br> - Day included below Kwh $\checkmark$ | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 2 |  |
| 7.2.3 | Shape added <br> - Shape with text 'Human Resources' added $\checkmark$ <br> - In the correct position $\checkmark$ <br> (Note to marker: Ignore spelling.) | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 2 |  |
| 7Temp |  |  |  |  |
| 7.3 | Graph/Chart in 7Temp <br> - Years sorted in ascending order $\checkmark$ <br> - Duplicate values deleted <br> - Top 3 temperatures $\checkmark$ appear with a border $\checkmark$ <br> - Graph inserted in 7Act_Akt document $\checkmark$ <br> - Reduced to fit in third column $\checkmark$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | 6 |  |
| 7Act_Akt |  |  |  |  |
| 7.4 | Calculation in table <br> - =AVERAGE $\checkmark$ <br> - (ABOVE) $\checkmark$ | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 2 |  |
| 7.5 | Text form field <br> - Maximum characters is set to $30 \checkmark$ <br> - Default text added as 'Add your name here' $\checkmark$ | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 2 |  |
| 7.6 | Author properties <br> - Author property of document changed to examination number $\checkmark$ <br> - Author field inserted next to 'Created by:' $\checkmark$ <br> - Displays in capital letters $\checkmark$ | 1 1 1 | 3 |  |
|  | Total for QUESTION 7 |  | [21] |  |
|  | TOTAL |  |  | 180 |

