basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**SENIOR CERTIFICATE EXAMINATIONS/
NATIONAL SENIOR CERTIFICATE EXAMINATIONS**

COMPUTER APPLICATIONS TECHNOLOGY P1

2019

MARKS: 180

TIME: 3 hours

**This question paper consists of 16 pages, an HTML tag sheet,
an input mask character sheet and a separate information sheet.**

INSTRUCTIONS AND INFORMATION

1.   Owing to the nature of this practical examination, it is important to note that, even if you complete the examination early, you will NOT be permitted to leave the examination room until all the administrative functions associated with the examination have been finalised. During the examination, normal rules regarding leaving the examination room apply.

2.   If you are working on the network, or the data files have been preloaded, you must follow the instructions provided by the invigilator/teacher. Alternatively, the invigilator will give you a CD/DVD/flash drive containing all the files needed for the examination. If a CD/DVD/flash drive has been issued to you, you must write your examination number and centre number on the CD/DVD/flash drive.

3.   At the end of the examination, you must hand in the CD/DVD/flash drive given to you by the invigilator with ALL your answer files saved onto the CD/DVD/flash drive, OR you should make sure that ALL the answer files are saved on the network/computer as explained to you by the invigilator/teacher.

4.   Make absolutely sure that ALL files can be read. Do NOT save unnecessary files/folders and **do NOT hand in duplicate answer files/folders. Do NOT delete any original files that you did not work on.**

5.   The information sheet that has been provided with the question paper **MUST BE COMPLETED AFTER THE THREE-HOUR EXAMINATION SESSION**. Hand it to the invigilator at the end of the examination.

6.   A copy of the master files will be available from the invigilator. Should there be any problems with a file, you may request another copy from the invigilator.

7.   This question paper consists of SEVEN questions. Answer ALL the questions.

8.   Read through each question before answering or solving the problem. Do NOT do more than is required by the question.

9.   Ensure that you save each document using the file name given in the question paper. Save your work at regular intervals as a precaution against possible power failures.

10.   You may NOT use any resource material.

11.   Accuracy will be taken into account, e.g. if a question requires the answer to be in cell F3 in a spreadsheet, and you enter the answer in cell G4, it will NOT be marked.

12.   Ensure that the regional settings are set to South Africa and date and time settings, number settings and currency settings are correctly set.

13. In all questions involving word processing, you should set the language to English (South Africa). The paper size is assumed to be A4 Portrait, unless instructed otherwise. Use centimetres as the unit of measurement.

14. Formulae and/or functions must be used for ALL calculations in questions involving spreadsheets. Use absolute cell references only where necessary to ensure that formulae are correct when you copy them to other cells in a spreadsheet.

     NOTE: All formulae and/or functions should be inserted in such a manner that the correct results will still be obtained even if changes are made to the existing data.

15. You may NOT use a word processing program such as Word to answer the HTML question.

16. The examination folder/CD/DVD/flash drive that you receive with this question paper contains the files listed below. Ensure that you have all the files before you begin with this examination.

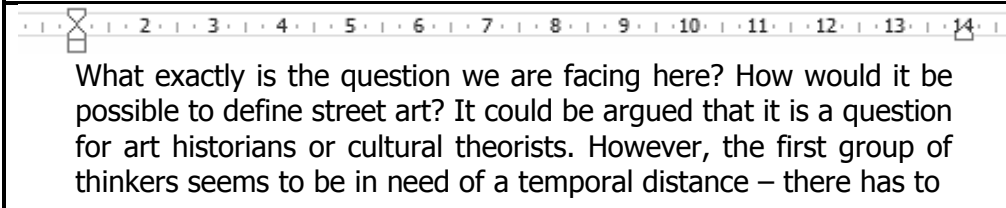|	
• 1Street	Word processing file
• 2Donations	Word processing file
• 2Donors	Spreadsheet
• 3Comp	Spreadsheet
• 4Entries	Spreadsheet
• 5Gallery	Database
• 5Street	Image
• 6_1	Image
• 6_2	Image
• 6_3	Image
• 6_4	Image
• 6_5	Image
• 6_Art	Image
• 6Famous	HTML file
• 7Art	Spreadsheet
• 7Europe	HTML file
• 7Globe	Word processing file
• 7Logo	Word processing file

SCENARIO

The art committee in your neighbourhood wishes to use art to decorate the streets. You were asked to give them information about street art.

QUESTION 1: WORD PROCESSING

Open the **1Street** word processing document about street art and insert your examination number in the header or footer.

1.1 Make the following changes to the cover page:

1.1.1 Insert the text 'Street' into the 'Title' content control. (1)

1.1.2 Change the font size of the 'A' to 200 pt. (1)

1.1.3 Display ONLY the inside borders of the table in a red colour. (2)

1.1.4 Align the picture in the bottom left cell of the table so that it appears in the centre of the cell. (1)

1.2 The entry 'http://www.widewalls.ch/defining-street-art/' should NOT appear in the table of contents on the second page.

Make the necessary changes so that the entry will NOT appear in the table of contents.

Update the table of contents. (2)

1.3 Change the bottom page margin to 2 cm from the bottom, from page 3 onwards. (2)

1.4 Find the paragraph that begins with 'What exactly is …' and ends with '… go from here?' on the third page.

1.4.1 Change the line spacing of the paragraph to 20 pt at least. (2)

1.4.2 Change the indentation to appear as follows:

(2)

1.5 The decades are referred to as 1970's, 1980's, etc. Use a word processing feature to remove the apostrophe between the decades and the 's', e.g. 1970s.

HINT: Use 0 and not the full year. (3)

1.6 Highlight the text that the bookmark 'Graffiti' refers to in any colour of your choice. (1)

1.7 Find the picture after the heading 'Repetition and Evolution'.

Add an automatic caption with the text 'Art 1: Vhils process' AND display the caption above the image. (3)

1.8 Change the numbered list after the heading 'Defining Street Art Does (not) Have a Conclusion' to a bulleted list.

Use the symbol '✖' (Wingdings 2, character code 147) for the bullet. (2)

1.9 Insert an automatic table of figures after the text 'Table of Figures' on the last page to display only the 'Figure' images. (2)

1.10 Remove the source, 'Banksy, J.R.; Just Google it', from the sources. (1)

1.11 Insert an automatic bibliography on the last page. (1)

1.12 Insert page numbers in the page footer as follows:

- Use any 'Mosaic' page numbering style.
- Align the odd page numbers to the left of the footer.
- Align the even page numbers to the right of the footer. (4)

Save and close the **1Street** document. **[30]**

QUESTION 2: WORD PROCESSING

Open the **2Donations** word processing document that contains information about donations for art created by Banksy, and insert your examination number in the header or footer.

2.1	Correct the spelling error in the document.	(1)
2.2	Change the form control next to the text 'Date' on the first page to accept the current date in the format dd MMMM yyyy.	(2)
2.3	Find the text that starts with '1. Set an example' and ends with '… others who need it.'.	

- Format this text to appear in four columns.
- Ensure that a numbered heading appears at the top of each column. (2)

2.4   Add an endnote to the text 'Utopia' as follows:

- Use capital Roman numerals for the number format.
- Add the text 'Perfect world' as the endnote.
- Add the endnote to the end of the section. (4)

2.5   Find the table below the text 'Choose an …' and do the following:

	2.5.1	Apply any table style, other than the 'Table Grid' style, to the table.	(1)
	2.5.2	Replace the ☐ symbol in the second row of the second column with a suitable form field.	(2)
	2.5.3	Add help text to the textbox form field in the second row of the third column of the table so that, when F1 is pressed, the text 'Enter amount' displays.	(2)
	2.5.4	Replace the text 'Insert calculation' in the last row of the table with a formula to calculate the total amount of the donations.	(2)

Save the **2Donations** document, but do NOT close it.

2.6   This document will be sent to specific recipients. Use the **2Donors** spreadsheet as the data source for a mail merge.

- Select only donors who have donated R50 000 or more.
- Remove Roland Lewis from the recipient list in the mail merge.
- Replace the text *<<Name>> <<Surname>>* at the end of the document with the merge fields *Name* and *Surname.*
- Save the document before completing the mail merge.
- Complete the merge and save the new merged document as **2Merged**. (4)

Save and close the **2Donations** document.   **[20]**

QUESTION 3: SPREADSHEET

NOTE:

- Use formulae and/or functions for ALL calculations in the spreadsheet.
- Use absolute cell references ONLY where necessary to ensure that formulae are correct when you copy them to other cells in the same column (copy down).
- Insert formulae and/or functions in such a manner that the correct results will still be obtained, even if changes are made to the existing data.
- Use the allocated area in the spreadsheet, should you need to use building blocks.

You were asked to assist with the administration of the Street Art competition.

Open the **3Comp** spreadsheet.

Work in the **Entries_Inskrywings** worksheet.

3.1	Merge **cells A1:M1** and centre the data vertically.	(2)
3.2	Fill the **cells A1:M1** with any blue pattern of your choice.	(2)
3.3	Continue the numbering pattern given in **cells A3:A6** to allocate a number to EVERY participant.	(1)
3.4	Insert a formula in **cell D3** to display only the participants' initials from **column B**.	
	NOTE: Some participants have more than one initial.	(5)
3.5	Insert a formula in **cell F4** to allocate a unique code to each participant as follows:	
	- The value in **cell A4**, followed by - The province in **cell E4**, followed by - A randomly generated two-digit number	(5)
3.6	Use a function in **cell G5** to determine the full name of the province for the code in **cell E5**.	
	Use the data in the **Province_Provinsie** worksheet and ensure that the formula will work correctly when copied to the rest of the cells.	(5)
3.7	Insert a function in **cell M3** to calculate the average score for the three rounds in **cells J3:L3**.	
	Format the answer to display no decimal places.	(3)

3.8   The winner of the competition will be announced 31 days after the closing date, e.g. if the closing date is 30/07/2019, the announcement will be made on 30/08/2019.

        Determine the date on which the winner will be announced in **cell P2** by using the date in **cell P1** and appropriate DATE functions.   (4)

Work in the **Subtotal** worksheet.

3.9   Use the SUBTOTAL feature to display the maximum total marks for each category.   (3)

Save and close the **3Comp** spreadsheet.   **[30]**

QUESTION 4: SPREADSHEET

NOTE:

- Use formulae and/or functions for ALL calculations in the spreadsheet.
- Use absolute cell references ONLY where necessary to ensure that formulae are correct when you copy them to other cells in the same column (copy down).
- Insert formulae and/or functions in such a manner that the correct results will still be obtained, even if changes are made to the existing data.
- Use the allocated area in the spreadsheet, should you need to use building blocks.

The organiser of the competition would like a breakdown of the information of the competition per province.

Open the **4Entries** spreadsheet.

4.1	Change the tab colour of the **Chart_Grafiek** worksheet to yellow.	(1)
4.2	Swop the order of the two worksheets so that the **Provinces_Provinsies** worksheet appears first.	(1)

Work in the **Provinces_Provinsies** worksheet.

4.3	Insert a function in **cell M7** to determine the number of entries from Limpopo (LP) (**column C**).	(3)
4.4	Sort only the data in **cells L3:M11** in descending order according to province.	(2)
4.5	Use a spreadsheet feature to apply any shading to all the cells that contain dates that appear more than once in **column E**.	(2)
4.6	Use a formula in **column J** to display the surname of the overall winner who achieved the highest total points (**column I**).	
	Copy the formula down to the other cells in **column J**.	(7)

Work in the **Chart_Grafiek** worksheet.

4.7 Change the chart/graph to display similar to the one shown below.
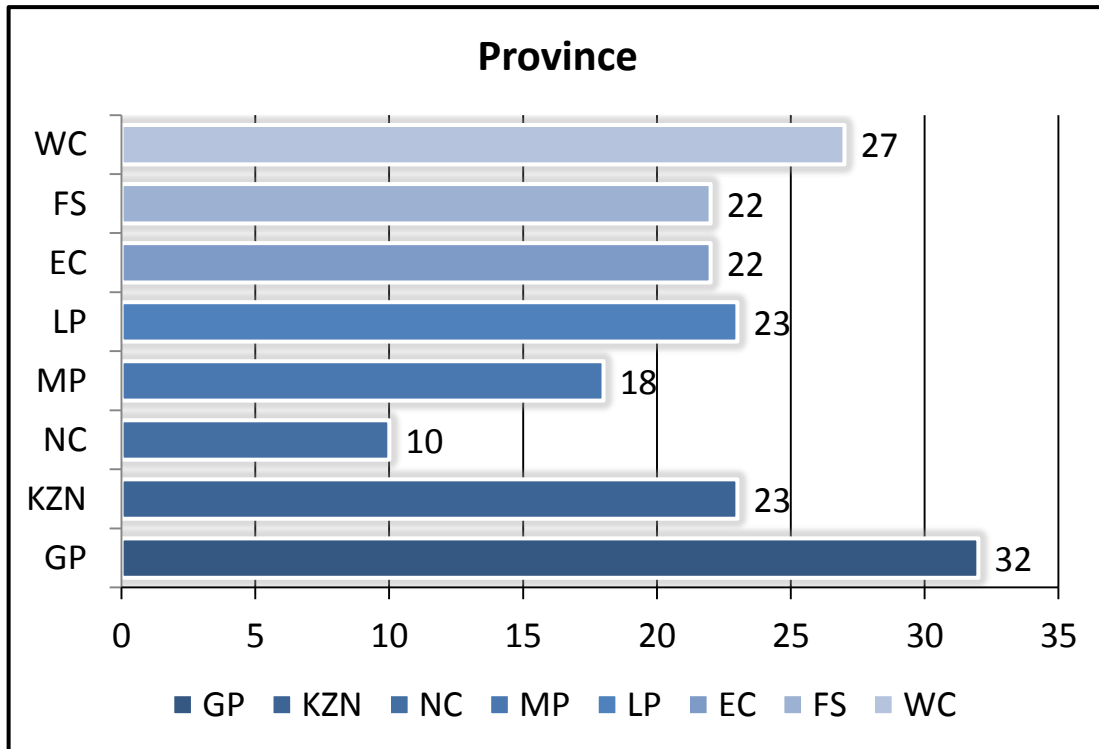
NOTE:

- Change the chart/graph to a bar chart/graph.
- Remove the data of the province with the least number of entries from the chart/graph. Do NOT remove the data from the spreadsheet.
- Apply any glow effect to the data series.
- Change the gap width to 50%.
- Change the colour of the major vertical gridlines to red. (5)

Save and close the **4Entries** document. **[21]**

QUESTION 5: DATABASE

Open the **5Gallery** database, which contains details of galleries and exhibits.

5.1   Open the **tblExhibit** table in Design View and do the following:

5.1.1   Change the *City* field size to 50.   (1)

5.1.2   Change the format of the *GalleryName* field to always display the data in uppercase.   (1)

5.1.3   The *PostCode* field should always contain four digits, e.g. 0001, 0235, 1245.

Change the *PostCode* field properties so that it will always accept and display ONLY four digits.   (3)

5.1.4   The stock in the gallery should be insured for 25% <u>more</u> than the total value of the stock (*TotalValue*).

Insert a new field named *'Insure'* with a calculated data type to determine the insured value of the stock.

NOTE: Ignore the format of the new field.   (5)

Save and close the **tblExhibit** table.

5.2   Create a form called **frm5_2** as follows:

- Base the form on the **qry5_2** query.
- Include all the fields of the query.
- Change the heading in the form header to 'Street Art'.
- Insert the **5Street** image found in your examination folder as the background of the form.
- Sort the data in the form alphabetically according to the *GalleryName* field.

Save and close the **frm5_2** form.   (8)

5.3   Open the **qry5_3** query in Design View.

Modify the query so that the total stock value of all the galleries in each province is displayed as follows:

Province	SumOfStockValue
EC	R763 229.28
GP	R4 453 601.24
KZN	R189 898.68
WC	R4 056 752.64

NOTE: Do NOT include any records where the province is not indicated.

Save and close the **qry5_3** query.   (3)

5.4   Open the **qry5_4** query in Design View and change the query to display the following information:

- Display only the *GalleryName* and *NoInStock* fields.
- Display only <u>street art</u> where the gallery name includes the word 'gallery' AND where the province is unknown.

Save and close the **qry5_4** query.   (7)

5.5   Open the **qry5_5** query in Design View.

Galleries that have 150 or more items in stock plan to run an exhibition for 30 days.

- Add a calculated field called *End* to determine the date on which the exhibition should end.
- Display only galleries in Johannesburg where there are more than 150 items in stock.
- Display only the galleries where the date on which the exhibition starts is in 2019.

Save and close the **qry5_5** query.   (8)

5.6   Open the **rpt5_6** report in Design View and do the following:

- Remove the *Province* grouping and any other reference to the *Province* data or label.
- Insert a function in the textbox in the report footer to display the average value of all the stock in the galleries.

Save and close the **rpt5_6** report.   (4)

Save and close the **5Gallery** database.   **[40]**

QUESTION 6: WEB DESIGN (HTML)

A website was created to display the top five street artworks.

Open the incomplete **6Famous** web page in a web browser and also in a text/HTML editor. **You may NOT use a word processing program such as Word to answer the HTML question.**

NOTE:

- Question numbers are inserted as comments in the coding to show approximately where the answer(s) should be inserted. Do NOT delete these comments.
- An HTML tag sheet has been attached for reference.

Your final web page should appear as shown in the example below.

NOTE: Use the example on the previous page to guide you in answering these questions.

ONE mark will be allocated for closing tags, triangular brackets and nesting correctly used. (1)

6.1   Display the text 'Famous Street Art' as the title in the browser tab. (1)

6.2   Set the cell padding of the entire table to 8. (2)

6.3   Align the picture **6_Art** to the right of the page. (1)

6.4   Display the heading 'Street Art' in Calibri font. (1)

6.5   Change the width of the **6_5.jpg** picture to 195 and the height to 145. (2)

6.6   Correct the HTML code found below the comment <!--6.6--> so that the table includes a row containing the image **6_3.jpg** and the text '3. Glasses in Russia …' to '… glasses to life.', as shown in the example on the previous page. (7)

6.7   Apply bullets to the data in the seventh row of the table. (2)

6.8   Insert a hyperlink on the text 'Read More' to link to the website Google.com. (3)

Save and close the **6Famous** web page. **[20]**

QUESTION 7: GENERAL

Some documents regarding street art need to be completed.

7.1   Open the **7Logo** document.

Use the images provided in the document to create a logo to appear similar to the one below.

Save and close the **7Logo** document.   (7)

7.2   Open the **7Globe** word processing document.

7.2.1   Insert a text watermark with the text 'Graffiti'.   (2)

7.2.2   Sort the paragraphs below the heading 'North America' from the text 'New York City …' to the text '… colourful imagery' in descending order.   (2)

7.2.3   Insert the text from the **7Europe.html** file found in your examination folder at the end of the document.

NOTE: The text should be linked to the original document.   (2)

Save and close the **7Globe** document.

7.3   The **7Art** spreadsheet contains information about art exhibitions.

      7.3.1   An art gallery will only be considered for a prize if their exhibitions occurred on or before the current date AND if there are more than 100 exhibitors.

            Insert a function in **cell G3** to determine if an art gallery qualifies for the prize, or not. Display "TRUE" if a gallery qualifies.

            NOTE: Use the date provided in **cell I2**.   (5)

      7.3.2   The province with the highest number of exhibitors will be given a prize.

            Determine which province will receive the prize. Type your answer in **cell A1**.

            NOTE:

- You may use any method/application to obtain the final answer.
- Ensure that your final answer displays in the **7Art** document.   (1)

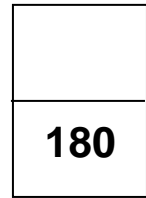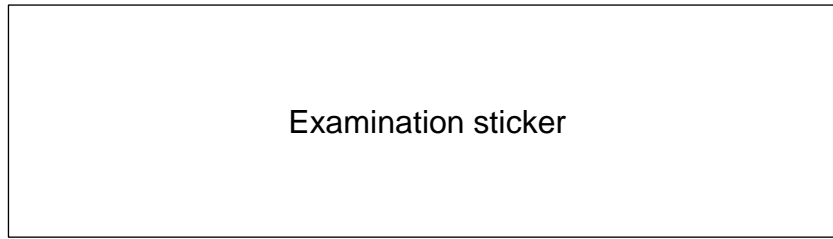Save and close the **7Art** document.   **[19]**

                                            TOTAL: 180

HTML TAG SHEET

Basic Tags	
Tag	**Description**
`<body></body>`	Defines the body of the web page
`<body bgcolor="pink">`	Sets the background colour of the web page
`<body text="black">`	Sets the colour of the body text
`<head></head>`	Contains information about the web page
`<html></html>`	Creates an HTML document – starts and ends a web page
`<title></title>`	Defines a title for the web page
` `	Inserts a line break
`<!-- -->`	Comment

Text Tags	
Tag	**Description**
`<h1></h1>`	Creates the largest heading
`<h6></h6>`	Creates the smallest heading
`<b></b>`	Creates bold text
`<i></i>`	Creates italic text
`<font size="3"></font>`	Sets size of font, from "1" to "7"
`<font color="green"> </font>`	Sets font colour
`<font face="Times New Roman"></font>`	Sets font type

Links Tags	
Tag	**Description**
`<a href="URL"></a>`	Creates a hyperlink
`<a href="URL"><img src="name"></a>`	Creates an image link
`<a name="NAME"></a>`	Creates a target location in the document
`<a href= "#NAME"></a>`	Links to a target location created somewhere else in the document

Formatting Tags	
Tag	**Description**
`<p></p>`	Creates a new paragraph
`<p align="left">`	Aligns a paragraph to the "left" (default), can also be "right" or "center"
` `	Inserts a line break
`<ol></ol>`	Creates a numbered list
`<ol type="A","a", "I","i","1"></ol>`	Defines the type of numbering used
`<ul></ul>`	Creates a bulleted list
`<ul type="disc", "square","circle"> </ul>`	Defines the type of bullets used

Formatting Tags continued	
Tag	**Description**
`<li></li>`	Inserted before each list item, and adds a number or symbol depending on the type of list selected
`<img src="name">`	Adds an image
`<img src="name" align="left">`	Aligns an image: can be "left", "right", "bottom", "top"
`<align="center"> <img src="name">`	Aligns an image in the "center", can also be "middle"
`<img src="name" border="1">`	Sets the size of the border around an image
`<img src="name" width="200" height ="200">`	Sets the height and width of an image
`<img src="name" alt="alternative text">`	Displays alternative text when the mouse hovers over the image or when the image is not found
`<hr/>`	Inserts a horizontal line
`<hr size="3"/>`	Sets size (height) of a line
`<hr width="80%"/>`	Sets the width of a line, in percentage or absolute value
`<hr color= "ff0000"/>`	Sets the colour of the line

Table Tags	
Tag	**Description**
`<table></table>`	Creates a table
`<tr></tr>`	Creates a row in a table
`<td></td>`	Creates a cell in a table
`<th></th>`	Creates a table header (a cell with bold, centred text)
`<table width="50">`	Sets the width of the table
`<table border="1">`	Sets the width of the border around the table cells
`<table cellspacing="1">`	Sets the space between the table cells
`<table cellpadding="1">`	Sets the space between a cell border and its contents
`<tr align="left">`	Sets the alignment for cell(s) ("left", can also be "center" or "right")
`<tr valign="top">`	Sets the vertical alignment for cell(s) ("top", can also be "middle" or "bottom")
`<td colspan="2">`	Sets the number of columns a cell should span
`<td rowspan="4">`	Sets the number of rows a cell should span

INPUT MASK CHARACTER SHEET

CHARACTER	DESCRIPTION
0	Digit (0 to 9, entry required, plus [+] and minus [–] signs not allowed)
9	Digit or space (entry not required, plus [+] and minus [–] signs not allowed)
#	Digit or space (entry not required; spaces are displayed as blanks while in Edit mode, but blanks are removed when data is saved; plus [+] and minus [–] signs allowed)
L	Letter (A to Z, entry required)
?	Letter (A to Z, entry optional)
A	Letter or digit (entry required)
a	Letter or digit (entry optional)
&	Any character or a space (entry required)
C	Any character or a space (entry optional)
. , : ; - /	Decimal placeholder and thousand, date and time separators (The actual character used depends on the settings in the **Regional Settings Properties** dialog box in the Windows Control Panel.)
<	Causes all characters to be converted to lowercase
>	Causes all characters to be converted to uppercase
!	Causes the input mask to display from right to left, rather than from left to right. Characters typed into the mask always fill it from left to right. You can include the exclamation point anywhere in the input mask.
\	Causes the character that follows to be displayed as the literal character (e.g. \A is displayed as just A).

Examination sticker	**180**

COMPUTER APPLICATIONS TECHNOLOGY P1 – 2019

INFORMATION SHEET *(to be completed by the candidate <u>AFTER</u> the 3-hour session)*

CENTRE NUMBER _____

EXAMINATION NUMBER _____

WORK STATION NUMBER_____

SUITE USED (Mark appropriate box with a cross (**X**))	Microsoft Office 2010	Microsoft Office 2013	Microsoft Office 2016	Office 365
WEB BROWSER USED (Mark appropriate box with a cross (**X**))	Mozilla Firefox	Google Chrome	Internet Explorer	Other (Specify)

FOLDER NAME_____

File names have been entered for each answer. Tick if saved and/or attempted.

Question number	File name	Saved (✓)	Attempted (✓)	Maximum Mark	Marker	SM	CM	IM/EM
1	*1Street*			**30**				
2	*2Donations*			**20**				
	2Merged							
3	*3Comp*			**30**				
4	*4Entries*			**21**				
5	*5Gallery*			**40**				
6	*6Famous*			**20**				
7	*7Logo*			**19**				
	7Globe							
	7Art							
TOTAL				**180**				

Comment *(for office/marker use only)*

_____
_____