



# Cambridge IGCSE™

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## INFORMATION AND COMMUNICATION TECHNOLOGY

0417/02

Paper 2 Document Production, Data Manipulation and Presentations

October/November 2020

2 hours 30 minutes

You will need: Candidate source files (listed on page 2)

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### INSTRUCTIONS

- Carry out **all** instructions in each step.
- Enter your name, centre number and candidate number on every printout before it is sent to the printer.
- Printouts with handwritten candidate details will **not** be marked.
- At the end of the examination, put all your printouts into the Assessment Record Folder.
- If you have produced rough copies of printouts, put a cross through each one to indicate that it is not the copy to be marked.
- You must **not** have access to either the internet or any email system during this examination.

### INFORMATION

- The total mark for this paper is 80.
- The number of marks for each question or part question is shown in brackets [ ].

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This document has **16** pages. Blank pages are indicated.

You have been supplied with the following source files:

**N220CLUB.csv**  
**N220EVENT.rtf**  
**N220EVIDENCE.rtf**  
**N220GROUP.csv**  
**N220LOGO.jpg**  
**N220RANK.rtf**  
**N220REGS.rtf**  
**N220SCORE.csv**  
**N220SPONSOR.rtf**

### Task 1 – Evidence Document

Open the file **N220EVIDENCE.rtf**

Make sure that your name, centre number and candidate number will appear on every page of this document.

Save this document in your work area as **N220EVIDENCE** followed by your candidate number, for example: N220EVIDENCE9999

You will need to place screenshots in this Evidence Document.

### Task 2 – Document

*You are going to edit an information sheet. The company uses a corporate house style for all its documents. Two paragraph styles have already been created. Additional paragraph styles must be created and applied to the information sheet as instructed.*

#### 1 Open the file **N220EVENT.rtf**

The page setup is set to A4, landscape orientation with 2 centimetre margins. Do **not** make any changes to these settings.

Save the document in your work area, in the format of the software you are using, with the file name **RWDETAILS**

#### **EVIDENCE 1**

Place in your Evidence Document a screenshot to show this file has been saved. Make sure there is evidence of the file type.

[1]

#### 2 Place in the header your name, centre number and candidate number, centre-aligned.

Place in the footer automated page numbers, right-aligned.

Make sure that:

- all the alignments match the page margins
- no other text or placeholders are included in the header and footer areas
- headers and footers are displayed on all pages.

[2]

- 3 At the start of the document enter the title:  
**Tawara MTB Marathon Race**

[1]

- 4 Create and store the following styles, basing each on the default paragraph style:

| House style specification |            |                    |           |                 |              |                       |                      |
|---------------------------|------------|--------------------|-----------|-----------------|--------------|-----------------------|----------------------|
| Style name                | Font style | Font size (points) | Alignment | Enhancement     | Line spacing | Space before (points) | Space after (points) |
| <b>RW-Title</b>           | serif      | 36                 | centre    | bold, italic    | single       | 0                     | 0                    |
| <b>RW-Subtitle</b>        | sans-serif | 20                 | right     | underline       | single       | 0                     | 0                    |
| <b>RW-Subhead</b>         | serif      | 18                 | centre    | bold, underline | single       | 0                     | 8                    |

**EVIDENCE 2**

Place in your Evidence Document a screenshot to show that the style settings have been defined for the *RW-Subhead* style.

[2]

- 5 Display these custom style names as a list in the style manager/organiser. Provide screenshot evidence of this list.

**EVIDENCE 3**

Place this screenshot in your Evidence Document.

[1]

- 6 The style *RW-Body* has already been created, stored and applied to the document text. Modify this style so only the following formatting is applied:

| Style name     | Font style | Font size (points) | Alignment | Enhancement | Line spacing | Space before (points) | Space after (points) |
|----------------|------------|--------------------|-----------|-------------|--------------|-----------------------|----------------------|
| <i>RW-Body</i> | sans-serif | 10                 | justified | none        | single       | 0                     | 9                    |

**EVIDENCE 4**

Place in your Evidence Document a screenshot of these style settings for the *RW-Body* style.

[2]

- 7 Apply the *RW-Title* style to the title text entered at Step 3. [1]
- 8 Enter your name immediately after the subtitle *Event details by*:  
Apply the *RW-Subtitle* style to this line of text. [1]
- 9 Change the page layout so that the subheading *Event Format* and all following text is displayed in 2 columns of equal width with a 2 centimetre space between the columns. [2]
- 10 Apply bullets to the list from:  
*Vipers ...*  
to  
*... under 8*  
Make sure that:
- the bullets are indented **2.5** centimetres from the left margin
  - the list is in single line spacing with no space between the lines
  - there is a **9** point space after the last item in the list.
- [2]
- 11 Identify the 6 subheadings in the document and apply the *RW-Subhead* style to each one. [1]
- 12 Locate the table in the document.  
Apply the *RW-Table* style to the table. [1]
- 13 Delete the entire row for the *Novice Pairs* category. [1]
- 14 Edit the table so that it looks like this:

| Entry Options |     |            |  |
|---------------|-----|------------|--|
| Category      | Age | Max Riders | Notes  |
| Solo          | 18+ | 1          | More experienced riders. Only pit crew and other riders for company. Must be able to perform well without any sleep. |
| Solo Veteran  | 40+ |            |  |
| Pairs         | 18+ | 2          | Relay format, riding shared. Pair decide team tactics and how many laps each rider completes.                        |
| Team Open     | 18+ | 4          | Relay format with men, women and mixed teams. Spreads the load, requires strategy and planning.                      |
| Team Veterans | 40+ | 5          | Combined age 170+ for 4 riders, 210+ for 5 riders.   |
| Easy Rider    | 16+ | 8          | Up to 8 riders in relay format. Less demanding for individuals. Suits work groups or clubs.                          |

[5]

15 Format only the first row of the table so it:

- has a white **14** point sans-serif font
- is bold and italic
- has a black background.

[3]

16 Make sure:

- the table borders and all data fit within the column width
- no words are split where text is wrapped in column 4
- all internal and external gridlines are displayed when printed
- there is a **9** point space after the table.

[2]

17 Spell check and proofread the document.

Make sure that:

- the list and table are not split over columns or pages
- there are no widows or orphans
- there are no blank pages
- spacing is consistent between all items.

Save the document using the same file name and format used in Step 1.

Print the document.

**PRINTOUT 1**

Make sure your **name**, **centre number** and **candidate number** are on your document.

[1]

[Total: 29]

### Task 3 – Database

You are now going to prepare some reports.

- 18 Using a suitable database package, import the file **N220SCORE.csv**

Use these field names and data types:

| Field name         | Data type | Format           |
|--------------------|-----------|------------------|
| <i>Last_Name</i>   | Text      |                  |
| <i>First_Name</i>  | Text      |                  |
| <i>Club_Code</i>   | Text      |                  |
| <i>Age</i>         | Number    | Integer          |
| <i>KM_Hour</i>     | Number    | 2 decimal places |
| <i>Position</i>    | Number    | Integer          |
| <i>Score</i>       | Number    | Integer          |
| <i>Race_No</i>     | Number    | Integer          |
| <i>Cat_Code</i>    | Text      |                  |
| <i>Distance_KM</i> | Number    | Integer          |

Set *Race\_No* as a primary key.

Save the data.

[2]

- 19 Import the file **N220CLUB.csv** as a new table in your database with all fields set with appropriate data types.

Set the *Club\_Code* field as a primary key.

[1]

- 20 Import the file **N220GROUP.csv** as a new table in your database with all fields set with appropriate data types.

Set the *Group\_Code* field as a primary key.

#### EVIDENCE 5

Place in your Evidence Document screenshots showing the primary keys, field names and data types used in all three tables.

[1]

21 Create one-to-many relationships as links between the:

- *Club\_Code* field in the club table and the *Club\_Code* field in the score table
- *Group\_Code* field in the group table and the *Cat\_Code* field in the score table.

**EVIDENCE 6**

Place in your Evidence Document screenshot(s) showing the type of relationships between the three tables.

[2]

22 Enter the following details as a new record in the score table:

|                    |               |
|--------------------|---------------|
| <i>Last_Name</i>   | <b>Flater</b> |
| <i>First_Name</i>  | <b>Susan</b>  |
| <i>Club_Code</i>   | <b>EPE12</b>  |
| <i>Age</i>         | <b>24</b>     |
| <i>KM_Hour</i>     | <b>4.05</b>   |
| <i>Position</i>    | <b>2</b>      |
| <i>Score</i>       | <b>125</b>    |
| <i>Race_No</i>     | <b>1476</b>   |
| <i>Cat_Code</i>    | <b>FE</b>     |
| <i>Distance_KM</i> | <b>50</b>     |

Check your data entry for errors.

Save the data.

[2]

23 Using fields from all tables, produce a tabular report that:

- contains a new field called **Total\_Time** which is calculated at run-time. This field will multiply the *KM\_Hour* by *Distance\_KM* and divide this by 1440. Format this field to display time as hh:mm:ss
- selects the records where:
  - *Club\_Name* includes the text **MTB**
  - *Age* is **20 or more**
  - *Distance\_KM* is **50 or 75**
- shows only the following fields:  
*Last\_Name, First\_Name, Gender, Age, Race\_No, KM\_Hour, Distance\_KM, Club\_Name, Position* and *Total\_Time*  
 in this order with data and labels displayed in full. Do **not** group the data
- sorts the data into ascending order of *Club\_Name* and ascending order of *Position*
- has a page orientation of landscape
- fits on a single page wide
- includes only the text **MTB Marathon Results** as a title at the top of the page, formatted so that it displays:
  - in a black, 30 point, serif font style
  - with all letters fully visible
- has only your name, centre number and candidate number in the footer of the report so it appears on every page.

Save and print your report.

**PRINTOUT 2**

Make sure that you have entered your **name, centre number** and **candidate number** on your report.

[12]

24 Using fields from the score and club tables produce a tabular report that:

- selects the records where:
  - *Position* is **1**
  - *County* does **not** include **Kent**
- shows only the 6 fields:  
*Position, First\_Name, Last\_Name, Club\_Name, County* and *Distance\_KM*  
in this order, with data and labels displayed in full. Do **not** group the data
- sorts the data into descending order of *County*
- has a page orientation of portrait
- fits on a single page
- includes only the text **Winning Club Members** as a title displayed in a larger font size, fully visible, at the top of the page
- calculates the average distance and positions this under the *Distance\_KM* column, formatted as an integer
- has a label **Average race distance** to the left of this value
- has your name, centre number and candidate number on the report.

Save and print your report.

**PRINTOUT 3**

Make sure that you have entered your **name, centre number** and **candidate number** on your report.

**EVIDENCE 7**

Place in your Evidence Document a screenshot of the formula used in the database to calculate the average distance.

[10]

25 Export the report created in Step 24 in portable document format (pdf).

Save the exported file with an appropriate file name in your work area.

**EVIDENCE 8**

Place in your Evidence Document a screenshot to show the exported file saved in your work area. Make sure there is evidence of the file type.

[1]

[Total: 31]

### Task 4 – Mail merge

You are required to carry out a mail merge.

- 26 Create a mail merge letter using the file **N220SPONSOR.rtf** as the master document and **N220RANK.rtf** as your data source file.

Replace the text and chevrons in the master document with the merge fields from the data source file as follows:

| Text and chevrons to replace | Replace with merge field |
|------------------------------|--------------------------|
| <FIRST>                      | First_Name               |
| <FAMILY>                     | Last_Name                |
| <ADD1>                       | Street                   |
| <ADD2>                       | Town                     |
| <POST>                       | Postcode                 |
| <FINISH>                     | Rank                     |
| <FUND>                       | Bursary                  |
| <AGREE>                      | Condition                |
| <CN>                         | Club_Name                |
| <AREA>                       | District                 |
| <BIB>                        | Race_No                  |
| <YB>                         | Year_Band                |
| <CAT>                        | Category                 |

Make sure the spacing, punctuation, alignment and enhancements in the original master document are maintained.

[4]

- 27 Replace the text *Candidate Name* with your name.

Enter your name, centre number and candidate number in the footer of the document.

Save and print your master document.

#### **PRINTOUT 4**

Make sure you have entered your **name**, **centre number** and **candidate number** on your master document.

[1]

- 28 Set an automated filter to select riders who have a rank of **3 or less**.

**EVIDENCE 9**

Place in your Evidence Document a screenshot to show the use of an automated selection method.

[1]

- 29 Merge and print the letters for the selected riders only.

Save and close the files.

**PRINTOUT 5**

Print the result of the merge. Make sure you have entered your **name**, **centre number** and **candidate number** on your letters.

[1]

[Total: 7]

**Task 5 – Printing the Evidence Document**

Save and print your Evidence Document.

**PRINTOUT 6**

Make sure that your **name**, **centre number** and **candidate number** appear on every page of your Evidence Document.

**Task 6 – Presentation**

*You are going to create a short presentation.*

*All slides must have a consistent layout and formatting. Unless otherwise instructed, slides must be formatted to display a title and bulleted list.*

**30** Create a presentation of 5 slides using the file **N220REGS.rtf**

Use a master slide to display only the following features:

- your name, centre number and candidate number in the bottom left corner
- the club logo, which is saved as **N220LOGO.jpg** in the source files, positioned in the top left corner, resized to a width of **3** centimetres with aspect ratio maintained
- automated slide numbers on the top right of every slide.

Make sure that:

- master slide items appear in the same position on every slide
- there is no overlap on any slide.

[4]

**31** Insert a new slide as slide 1 and format this slide so that:

- a title slide layout is applied with no bullets
- the title and subtitle text are centred in the middle of the slide.

[1]

**32** Enter the text **Tawara MTB 2020 Race** as a title on slide 1.

Enter the text **Presented by:** followed by your name as a subtitle on slide 1.

[2]

33 On the slide with the title *The Course* locate the 3 items:

- *one arrow – Straight Ahead Slow*
- *two arrows – Caution – Dangerous Situation*
- *three arrows – Serious Hazard – Extreme Caution*

Format these 3 items to look like this:

- potentially dangerous situations marked by down pointing arrows:
  - *one arrow – Straight Ahead Slow*
  - *two arrows – Caution – Dangerous Situation*
  - *three arrows – Serious Hazard – Extreme Caution*
- road sections are not closed to traffic

[3]

34 Add the following text as presenter/speaker notes to the slide with the title *The Course*:

**Motorbikes and cars will be using the course too – please take extreme care.**

Print only this slide as presenter/speaker notes.

**PRINTOUT 7**

Make sure your **name**, **centre number** and **candidate number** are on this slide.

[2]

35 Save the presentation.

Print the presentation as handouts with **2** slides to the page, each filling half the page.

**PRINTOUT 8**

Make sure your **name**, **centre number** and **candidate number** are on all slides.

[1]

[Total: 13]





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