SECOND ROUND QUESTION PAPER 2017

Not to be used before 7 June 2017

INSTRUCTIONS TO THE CANDIDATES

1. *All answers must be typed or pasted in the correct square.*
2. *You may do the questions in any order, but you have to make sure the answers are placed correctly.*
3. *The files you need to answer the questions have been provided to your school. Ask your teacher/invigilator where to find them.*
4. *The paper must be completed under 'examination conditions'. No communication (oral, electronic or any other form) with other contestants is permitted.*
5. *You may use the application of your choice and, if necessary, convert the data as it suits you.*
6. *You have one hour (60 min.) to complete this paper.*
7. *Each correct answer counts four (4) marks.*
8. *You need to store your files where you found them and where your teacher can access them in case the judges want to see how you obtained the answer.* **Do not delete any of the files. Do not attempt to modify any files after the end of the contest.**
9. *For all questions, if the answer is a number just give the number without any units.*

A. Word Processing

Over the years, there have been numerous studies to show how playing different types of background music can influence shopping behaviour. Everything from music volume to tempo can all play a part in how consumers spend money and behave in shops. The document file **Music in Retail Stores** discusses some of the issues that owners need to consider. Use word processing features to answer the following questions.

For all questions, if the answer is a number just give the number without any units.

A1. Style
Use the document-file Music in Retail Stores and word processing features to answer the question.
A1. What percentage style shading is used in the top row of the table? Give the number only e.g. 17 or 93

A2. Height
Use the document-file Music in Retail Stores and word processing features to answer the question.
A2. What is the exact height (in cm) of the image near the heading 'Four key elements of effective retail music'? Give the number only e.g. 27

A3. Line Number
Use the document-file Music in Retail Stores and word processing features to answer the question.
A3. What word is at the beginning of the 50th line of the whole document? Give the word exactly as it is in the text. You may copy and paste e.g. Music

Section B: Spreadsheet

Note: Sections B and C use very similar data but some of the fields and data are different. All answers to Section B must come from the HotHits sheet of the Excel spreadsheet file.

The Billboard Hot 100 is a chart that ranks the best-performing songs of the United States in any given year. Its data, published by Billboard magazine and compiled by Nielsen SoundScan, is based collectively on each song's weekly physical and digital sales, as well as airplay and streaming.

The spreadsheet file **BBHot100HitsR2** contains information on the songs which made it into the Billboard Hot 100 hits between 2001 and 2016.

For all questions, if the answer is a number just give the number without any units.

B1. No Length
Use the spreadsheet file BBHot100HitsR2 to answer the question.
B1. How many songs do not have a value for the length of the song? Give the number only e.g. 131

B2. Cat & Dog
Use the spreadsheet file BBHot100HitsR2 to answer the question.
B2. What is the title of the song which contains both 'cat' and 'dog' in the name of the artist(s)? Give the title of the song exactly like in the spreadsheet. You may copy and paste.

B3. Lil Wayne
Use the spreadsheet file BBHot100HitsR2 to answer the question.
B3. How many songs contain 'Lil Wayne' in the artist field? Give the number only e.g. 131

B4. Same Number
Use the spreadsheet file BBHot100HitsR2 to answer the question.
B4. How many songs have the same number for the track and hit number? Give the number of songs only e.g. 131

B5. Record Date
Use the spreadsheet file BBHot100HitsR2 to answer the question.
B5. On which date (ddmm) were the most Billboard Hot 100 hits played? If more than one date, give the most recent date. Give the date in the exact format specified e.g. 3 August would be 0308

B6. Hash
Use the spreadsheet file BBHot100HitsR2 to answer the question.

B6. What is the 'hash' total for the number 1 song of 2015?
To create a 'hash' total, use column I, and add together the following four values:
  a) the value in the **year** field (column B),
  b) the value in the **no** field (column C),
  c) the length of the **artist** field (column D), and
  d) the length of the **title** field (include all characters – a space counts as a character) (column E).
For example the song 'Most Girls' by 'Pink' which was number 97 in 2001 has a hash total of 2112. Do not delete this column (I) or your working in this column. Give the number only e.g. 2112

B7. Two Years
Use the spreadsheet file BBHot100HitsR2 to answer the question
B7. How many titles by the same artist(s) appear in the Billboard Hot 100 hits in two consecutive years? Give the number only e.g. 131

B8. Characters
Use the spreadsheet file BBHot100HitsR2 to answer the question. Do your calculations for this question in column K (and L & M if needed) and save the calculations with your file.
B8 The 'Title' of the song sometimes contains text in square brackets at the end of the title e.g. '[Remix]'. This is not part of the song title but a comment on that version of the song. If these 'comments' are removed, how many songs have a length of 32 characters? Give the number only e.g. 131

B9. 31 December

Use the spreadsheet file BBHot100HitsR2 to answer the question. Do your calculations for this question in column N (and O & P if needed) and save the calculations with your file.

B9. If all the songs played on the 31 December 2016 were played consecutively (one after each other) without any gaps between. How long, in minutes and seconds, will it take to play them all? Give your answer in the format specified mm:ss e.g. 25:04

C: Database

*Note: Sections B and C use very similar data but some of the fields and data are different. All answers to Section C must come from the Access **database** file.*

The Billboard Hot 100 is a chart that ranks the best-performing songs of the United States in any given year. Its data, published by Billboard magazine and compiled by Nielsen SoundScan, is based collectively on each song's weekly physical and digital sales, as well as airplay and streaming.

The database **Hot100R2** contains some details of all the songs for the period 2001-2012. In the questions below a '*solo performing artist*' is an artist who performs by themselves and so only their name appears in the database as the artist.

C1. Released
Use the database file Hot100R2 to answer the question.
C1. How many songs in the database were first released in 2000? Give the number only e.g. 131

C2. Pop songs
Use the database file Hot100R2 to answer the question.
C2. How many songs categorised as 'pop' songs appear in the database? Give the number only e.g. 131

C3. Alicia Keys
Use the database file Hot100R2 to answer the question.
C3. In which year did Alicia Keys appear three times as a solo performing artist? Give the year only e.g. 2017

C4. Same Name
Use the database file Hot100R2 to answer the question.
C4. How many songs have the same name as the album on which they appear and are the first track on the album? Give the number only e.g. 131

C5. Taylor Swift
Use the database file Hot100R2 to answer the question.
C5. In how many of the country music songs that reached the Billboard Hot 100 in 2008 did Taylor Swift appear? Give the number only e.g. 131

C6. Artists
Use the database file Hot100R2 to answer the question.
C6. Some artists appear in the Billboard Hot 100 hits multiple times in a particular year. For example, Britney Spears has 4 songs in the 2009 Hot 100. Which male artist has appeared the most in any one year? Give the name exactly as it appears in the Database. You may copy and paste.

C7. Errors
Use the database file Hot100R2 to answer the question.
C7. The database contains some errors as some songs appear to have reached the Hot 100 before they were actually released. According to the database how many song titles appeared on the Billboard Hot 100 before they were actually released? Give the number only e.g. 131

C8. Most Songs
Use the database file Hot100R2 to answer the question.
C8. In which year did the most songs released in that year reach the Billboard Hot 100 of the same year? Give the year only e.g. 2017

C9. Longest Period
Use the database file Hot100R2 to answer the question.
C9. Some artists have songs that appear in the Billboard Hot 100 hits over many years. For example, Rihanna has 16 songs over the period from 2005 to 2012. Which artist with the most songs appeared on the Billboard Hot 100 charts for the longest period of time - that is from the first time they appeared to the last time they appeared? Give the name exactly as it appears in the Database. You may copy and paste

D: WebQuest

D1. Play
A famous poet and playwright wrote the words *"If music be the food of love, play on."*
Use the web to find the answer to the question.
D1. What is the name of the play from which the quote is taken?
Give the answer exactly as it appears on the web e.g. King Lear. You may copy and paste.

D2. How old?
A famous poet and playwright wrote the words *"If music be the food of love, play on."*
Use the web and arithmetic to find the answer to the question.
D2. If this playwright were still alive today (7 June 2017), how old, in completed years, would he be? Give the number only e.g. 131

D3. Mother
A famous poet and playwright wrote the words *"If music be the food of love, play on."*
Use the web to find the answer to the question.
D3. What was the first name of his mother? Give the first name exactly as you find it on the web e.g. Susan. You may copy and paste.

D4. Children
A famous poet and playwright wrote the words *"If music be the food of love, play on."*
Use the web to find the answer to the question.
D4. To how many children did his wife give birth? Give the number only e.g. 131