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REGISTRATION CENTRE NUMBER	CENTRE NAME
CANDIDATE'S FULL NAMES	
CANDIDATE IDENTIFICATION NUMBER	SUBJECT CODE 0796 / PAPER NUMBER 3
FOR OFFICIAL USE ONLY (Candidate Random CODE): ▶	

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CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD
ADVANCED LEVEL EXAMINATION

SUBJECT TITLE	SUBJECT CODE	PAPER NUMBER
INFORMATION & COMMUNICATION TECHNOLOGIES	0796	3
	EXAMINATION DATE: JUNE 2019	

TWO HOURS
DAY 2

Enter the information required in the shaded boxes.
Do not write in pencil.

You are reminded of the necessity for good English and orderly presentation in your answer.
Your results must be recorded in the spaces provided in this question booklet. Candidates must allow for themselves enough time to complete and check their work where these are required.
*The supervisor will guide you on how to save your files but usually you will be expected to save all your work in one folder named **Candidate folder** that will be created in your desktop.*

When an imperative programming language is require to write program code, either Standard **|ISO|**Pascal *or* **|ANSI|***C' programming language may be used.*

You should ensure all your work is collected and printed before leaving the examination room. All printed work should be inserted in this booklet and well stapled.

CAREFULLY HANDLE ALL EQUIPMENT PUT AT YOUR DISPOSAL to avoid accidents that may lead to a disaster or system failure. Report any case of system or device malfunction to your supervisor.

Answer ALL TASKS.

FOR EXAMINERS' USE ONLY	
Marked by:..... *Signature:* ..... *Date:*	***SCORE***
Checked by:..... *Signature:* ..... *Date:*	

TURN OVER

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TASK A (DATABASE: 24 MARKS)

You will be asked to create a database by importing tables from a workbook found in your candidate folder. After importing the tables, you will then proceed to carry out other database activities.
The information is about sales recorded by an online supplier of goods to customers in some towns in Cameroon.

Procedure to import tables from a workbook into a database.

(a) Create a Database named **Marketing** and save it in your *candidate folder*.
(b) Right click on the default table named *Table1* found on the left pane of your database window and select *Excel* through the *Import* option to browse to the Excel file named ***OnlineSales*** in the candidate folder and click *OK*.
(c) Select the **Item** sheet in the *Show Worksheet* window and click *Next*.
(d) In the next step, ensure that the box on *First Row* containing *Column Headings* is checked and click *Next*.
(e) Skip the next step that demands modifying data type by clicking *Next*.
(f) In the next window, select the *No primary key* option. This will be done after the import.
(g) Click *Finish* to end the import.
Verify that a table named **Item** is added in the table section of the database.
(h) Follow the same procedure as above to import the ***Customer*** and ***Sales*** tables. **(6 marks)**

Database activities.

1. List all the attributes of the three tables.

Customer	**Item**	**Purchase** (Sales)

(2 marks)

2. Complete the table below by stating the field names and data types of the **Item** table.

Field Name	Data type

(1 mark)

3. Identify the primary keys of the **Item** and **Customer** tables.
Primary key of Item table _____
Primary key of Customer table _____ **(2 marks)**
4. State the foreign key(s) of the database. _____ **(1 mark)**
5. Insert the primary keys in the tables of the database. **(1 mark)**
6. By studying the entities and their attributes, draw the E-R diagram for the database. **(3 marks)**

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7. Create the relationship of the three tables in your database. **(2 marks)**
8. Create a query that will display the complete information (of all the fields) in one table and including a calculated field named *TotalPrice*; which is the product of *UnitPrice* and *Quantity*. **(3 marks)**

   The fields should be in the order: SN, Name, Town, ItemCode, ItemName, UnitPrice, Quantity, TotalPrice. Save the query as ***GeneralSheet***.

   Write down the Expression you have used in the *TotalPrice* field in the line below

   _____

9. Create a query to display items bought by inhabitants of Limbe, Yaounde, and Douala where the number of items is less than 45. **(3 marks)**

   Save the query as ***MeanCustomers***.

   Print the following: *Customer*, *Broadsheet*, *MeanCustomers*

TASK B: (SPREADSHEE: 23 marks)

This task is based on the **OnlineSales** workbook found in your *candidate folder*.

Open the **OnlineSales** workbook found in your *candidate folder*.

1) Copy the names in the Customer sheet to the *Name* field in the *General* sheet. **(2 marks)**
2) Merge the two cells B22 and C22; containing the word TOTAL. **(2 marks)**
3) Format Row 22 so that row height becomes 35 pixels, font size ecomes 22 and bold. **(2 marks)**
4) Insert border to all the cells in the range A1:E22. **(2 marks)**
5) Use a light grey colour to fill the field headers, A1:E1 **(1 mark)**
6) Insert a formula in cell E2 that computes the total price by multiplying the *Quantity* by the *Unit Price* for each item which is found in the Item sheet. Use the hint below to complete the formula.

   =IF(C2="S1",D2*Item!C$2,….'

   Write down the formula in cell E2 in the line below.

   _____

   _____ **(4 marks)**

7) Calculate the totals along row 22 in the D and E columns.
   Write down the formula in cell E22 in the line below.

   _____ **(1 mark)**

8) Insert a vertical bar chart of *Item Code* against *Total Price*. **(2 marks)**
9) Set the title of chart to *Sales*, name the horizontal axis as *Item Code* and vertical axis as *Total Price*, Move the bar chart to the area just below the table so that it prints on the same page as the table. **(3 marks)**
   Save the workbook and print the *GeneralSheet* sheet only.

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