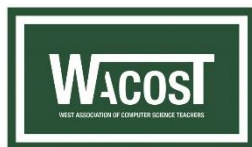


REPUBLIC OF CAMEROON  
Peace-Work-Fatherland

MINISTRY OF SECONDARY EDUCATION

REGIONAL DELEGATION FOR THE WEST

REGIONAL INSPECTORATE OF PEDAGOGY



REPUBLIQUE DU CAMEROUN  
Paix-Travail-Patrie

MINISTERE DES ENSEIGNEMENTS SECONDAIRES

DELEGATION REGIONAL DE L'OUEST

INSPECTION REGIONAL DE PEDAGOGIE

West General Certificate of Education **MOCK EXAMINATIONS**

**0796 INFORMATION AND COMMUNICATION TECHNOLOGIES 3**



**MARCH 2020**

**MORNING**

**ADVANCED LEVEL**

|                                                                                                      |                                                                        |                             |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------|
| THE REGIONAL DELEGATION OF SECONDARY<br>EDUCATION IN ASSOCIATION WITH THE<br>TEACHERS' RESOURCE UNIT | SUBJECT CODE<br>NUMBER<br><b>0796</b>                                  | PAPER<br>NUMBER<br><b>3</b> |
| WEST ASSOCIATION OF COMPUTER SCIENCE<br>TEACHERS (WACOST)                                            |                                                                        |                             |
| CANDIDATE'S NAME.....<br>CANDIDATE'S NUMBER.....<br>CENTRE NUMBER.....                               | SUBJECT TITLE<br><b>INFORMATION AND<br/>COMMUNICATION TECHNOLOGIES</b> |                             |

**THREE HOURS**

**Candidates are required to carry out all the tasks.**

**Do not write in Pencil.**

*You are reminded of the necessity of 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 required 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 disaster or system failure. Report any case of system or device malfunction to your supervisor.

**Turn Over**

**TASK A: Spreadsheet (18 marks)**

This task will require you to design a spreadsheet and save it as MEETING in your candidate folder. The spreadsheet shows a thrift and loan table of a small group of people. You are called to summarize the records at the end the year by using the spreadsheet formulae to make calculations. Before you answer question 2, to calculate the **interest from loan** (Column H), you will proceed as follows:  $0.5 \times \text{Loan Duration} \times \text{Simple interest}$ . (Hint for cell H2 =  $0.5 * E2 * G2$ )



|   | A  | B             | C         | D      | E             | F          | G                 | H                    | I       | J       |
|---|----|---------------|-----------|--------|---------------|------------|-------------------|----------------------|---------|---------|
|   | No | Name          | Savings + | Loan - | Loan Duration | Difference | Simple Interest - | Interest from Loan + | Bonus + | Balance |
| 1 | 1  | Moto John     | 33000     | 12000  | 3             |            |                   | 0                    |         |         |
| 2 | 2  | Makia Helen   | 25500     | 15000  | 4             |            |                   | 0                    |         |         |
| 3 | 3  | Shu Peter     | 12000     | 3000   | 8             |            |                   | 0                    |         |         |
| 4 | 4  | Rose Mbong    | 14800     | 14000  | 4             |            |                   | 0                    |         |         |
| 5 | 5  | William Amah  | 54000     | 13000  | 5             |            |                   | 0                    |         |         |
| 6 | 6  | John Ewodo    | 25000     | 8000   | 7             |            |                   | 0                    |         |         |
| 7 | 7  | Clement Sepad | 10400     | 15000  | 6             |            |                   | 0                    |         |         |
| 8 | 8  | Joana Belomo  | 38000     |        |               |            |                   | 0                    |         |         |
| 9 |    | <b>TOTAL</b>  |           |        |               |            |                   |                      |         |         |

1. Open a spreadsheet at your disposal and design the table as shown on the screen capture. **(3 marks)**
2. Insert border in the area containing the table **(2 marks)**
3. Insert a formula in F column to calculate the difference which is calculated by subtracting the loan from the savings. Write the formula you have in F5 in the line below.  
F5 ..... **(2 marks)**
4. Insert a formula in the G column to calculate the simple interest which is 5 percent of the loan. Write the formula you have in G2 in the line below.  
G2 ..... **(3 marks)**
5. The bonus is calculated on two factors; those whose savings are greater than 25000 and loan less than the savings get 10 percent of the difference (column F) as bonus else they get zero bonus. Write the formula you will use to calculate the bonus for Moto John in I2.  
I2 ..... **(4 marks)**
6. Insert a formula in column J to calculate the balance for all the members. Write the formula you will use to calculate the balance for Moto John in J2. (Use the fact that a positive sign on the field name indicates benefits to the member while a negative sign indicates a deduction to calculate the balance). Write the formula you will use to calculate the bonus for Moto John in J2.  
J2 ..... **(2 marks)**
7. Insert a total for all the columns along row 10. Write the formula in J10 in the line below.  
J10 ..... **(2 marks)**

### **TASK B: Database (18 marks)**

This task is based on data for supplies of some products made to customers in a city by some traders. You will be expected to extract information from **Table 2** to implement the database to hold information about supplies made to these customers.

## Table 2

| CustomerID | CusName | CusSurname | Product ID | Product Name | Quantity | Unit Price | Trader Name |
|------------|---------|------------|------------|--------------|----------|------------|-------------|
| 1          | Luma    | Sam        | P1         | Salt         | 4        | 2800       | Takang      |
|            |         |            | P2         | Savon        | 4        | 10000      | ndifor      |
|            |         |            | P3         | Sugar        | 12       | 6000       | Delicia     |
| 2          | Gobina  | Joshua     | P4         | Flour        | 7        | 18000      | Eugene      |
| 3          | Mabu    | Mortha     | P1         | Salt         | 3        | 2800       | Takang      |
|            |         |            | P3         | Sugar        | 20       | 6000       | Delicia     |
|            |         |            | P5         | Zinc         | 5        | 3400       | Muluh       |
|            |         |            | P2         | Savon        | 5        | 10000      | Ndifor      |

- a) Create Three tables following the structures given below. The structure is given using the format **Table\_Name (PrimaryKey\*,FieldName, FieldName,...)**.

**Customer** (*CustomerID\**, CusName, CusSurname)

**Supplies (CustomerID, ProductID, Quantity)**

**Product** (*ProductID\**, ProductName, UnitPrice, TraderName)

Represent the three tables in the space below taking values from **Table 2** above.



**(6 marks)**

[illegible]

- b) Create a database named Shopping and save it in the candidate folder **(1 mark)**

- c) Define each table properties in the space below showing the field and the data type for each field name.

**(3 marks)**

## Customer Table

| Field name | Data type |
|------------|-----------|
|            |           |
|            |           |
|            |           |
|            |           |

## Supplies Table

| Field name | Data type |
|------------|-----------|
|            |           |
|            |           |
|            |           |
|            |           |

**Turn Over**

**Product Table**

| Field name | Data type |
|------------|-----------|
|            |           |
|            |           |
|            |           |
|            |           |



d) Create the three tables derived above in your database.

**(3 marks)**

Populate each of the tables created in the database with the data derived from your tables in (a) above.

e) Create a relationship between the three tables. Draw the relationship diagram in the space below indicating the table names and keys that relate to the tables.

**(2 marks)**

.....

.....

.....

.....

.....

.....

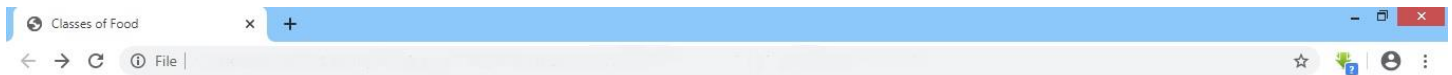
f) By making a query, list all the customers who were supplied Salt and/or Sugar and the quantity that were supplied. Your query should show the price for each product and the total amount. Save the query as **Supplies2**.

**(3 marks)**

**NB:** The field total is obtained by multiple the **Unit price** with the **Quantity**

**Print the query**

**Print the Customer Table**

**TASK C: Web Design (12 marks)****CLASSES OF FOOD**

*Mind your eating habits. Most people are familiar with the five food groups: fruits, vegetables, grains, protein, and dairy. Another way to categorize food is by the type of nutrient it contains and its role in the body.*

Nutritionist advised that we should eat a balance diet

| Carbohydrates | Protiens |
|---------------|----------|
| Rice          | Palm oil |
| Cocoyams      | Beans    |

For more information, consult [Classes of food](#)

**Six classes of Food**

1. Water
2. Proteins
3. Carbohydrates
4. Fat
5. Minerals
6. Vitamins

**Figure 1**

[In case you find it hard to read the text, here is a transcript:

- **Before table:** *Mind your eating habits. Most people are familiar with the five food groups: fruits, vegetables, grains, protein, and dairy. Another way to categorize food is by the type of nutrient it contains and its role in the body.*

- **Table data:** **Carbohydrates:** Rice, Cocoyam

**Protein:** Palm Oil, Beans

- **Before image:** *For more information, consult Classes of food (hypertext link)*

- **After Image(list):** **Six classes of Food:** Water, proteins, carbohydrates, Fat, Minerals, vitamins.]



The details below will guide you to produce the web page in Figure 1

Type your code using the appropriate text editor of your choice.

- (a) Set the title of the web page to “Classes of food” (2 marks)
- (b) Create two free lines before the first header. (1 mark)
- (c) Use Header 1 style for the first line and header 2 for the second heading before the table (2 marks)
- (d) Set second line of text in italics
- (e) Set the heading of the table to be Bold and underlined (2 marks)
- (f) Add a hypertext link [www.livestrong.com](http://www.livestrong.com) to the text **Classes of food** (line after the table) (2 marks)
- (g) Insert an image of your choice on your PC using the image attribute (2 marks)
- (h) The heading of the list of the list at the bottom of the page is underlined and bold (2 marks)
- (i) Use the ordered list for the classes at the end of the web page (2 marks)
- (j) Save the HTML code you have typed as **Food.txt** and save the webpage created as **Food.html** in the candidate folder. (2 marks)

**Print both the web page and the HTML codes.**