

REGISTRATION CENTRE NUMBER		CENTRE NAME	
CANDIDATE'S FULL NAMES			
CANDIDATE IDENTIFICATION NUMBER		SUBJECT CODE 0595	PAPER NUMBER 3 Group Two
FOR OFFICIAL USE ONLY (Candidate Random Code) →			
GENERAL CERTIFICATE OF EDUCATION BOARD ORDINARY LEVEL EXAMINATION			
SUBJECT TITLE COMPUTER SCIENCE		SUBJECT CODE 0595	PAPER NUMBER 3 Group Two
		EXAMINATION DATE: JUNE 2022	

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H

Two and a Half hours

Question	Mark
Task 1	
Task 2	
Task 3	
SBA	

Enter the information required in the spaces provided above.

For your guidance, the approximate mark for each part of a question is indicated in brackets.

You are reminded of the necessity for good English and orderly presentation in your answers.

In calculations, you are advised to show all the steps in your working, giving your answer at each stage.

All written answers should be provided in the spaces provided in this question booklet.

Calculators are NOT allowed.

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

Turn Over

Task 1 (20 marks)

You have the task to reproduce the document in Figure 1.



No: _____

Yaounde, the _____

PRESS RELEASE

The Minister of the Public Service and Administrative Reform hereby invite Mr. Yike Junior Kongui, second candidate on the waiting list who has been declared successful in the direct competitive examination for the recruitment of 10 (ten) Assistant Survey Engineers, to report at his Ministry (Department of State Human Resource Development), Room 411, from the date of signing of this press release to assume duty.

In that respect, he should carry along his national identity card, a photocopy of the initial required certificate and his file for insertion into the State's Payroll constituted as follows:

- a medical report;
- two individual forms;
- two information sheets.

Copies

MINFOPRA/DDRHE/CELCOM

Figure 1

In an effort to reproduce the document a student used a simple text editor but the resulting document does not look like the document shown in Figure 1. Answer the following questions.

1. State two reasons why the simple text editor is not appropriate for this task.

(2 marks)

2. Give an example of a word processor that can be used to achieve this task. (1 mark)
-
3. Use a word processor to reproduce the document. Note that the font used is Times New Roman, the font sizes used are: 10 for the letterhead, 18 for the text "PRESS RELEASE" and 12 for the rest of the content. Note also that a line spacing of 1.5 is used on the text after the title PRESS RELEASE. You have been provided with the logo for the letterhead. (12 marks)
4. Assuming you wanted to reuse the text already typed by the student which editing feature can facilitate that? (2 marks)
-
5. Outline the steps you used to create the letterhead (3 marks)
-
-
-

Save your work as Task 1

Print Task 1

TASK 2 (20 marks)

GIGA ELECTRONICS is a dealer in electronic supplies. In January 2021 the company made supplies to 3 clients, Wirmgo, Ako and Ngono. Any article with a unit price greater than or equal to 500000 FCFA has a Tax Rate of 2.5%. Any article with a unit price less than 500000 has a Tax Rate of 10%. You are required to prepare a spreadsheet that enables GIGA ELECTRONICS to have a clear picture of the January supplies.

Sample worksheet for this task is shown in Figure 2. Study the design carefully and answer the questions that follow.

	A	B	C	D	E	F	G	H	I	J	K
1	GIGA ELECTRONICS										
2											
3											
4											
5											
6	SUPPLIES FOR JANUARY 2021										
7	SN	NAME	Size	Unit Price	Wirmgo Mbam	Ako Oben	Ngono Mary	Total quantity	Purchase Amount	Tax Amount	Total Cost
8	1	Lenovo V15	15"	400000	15	15	10				
9	2	acer as	13"	350000	10	16	45				
10	3	acer as	15,6"	250000	12	14	15				
11	4	Lenovo ThinkPad	13"	425000	17	18	14				
12	5	Hp	15"	300000	5	23	30				
13	6	Lenovo ThinkVision	15,6"	600000	19	19	24				
14	7	acer as	15,6"	500000	25	12	40				
15	8	Marabok Hardshell Case	13"	475000	36	15	14				
16	9	acer as	15"	620000	15	30	12				
17	10	Invisible Notebook	13"	800000	5	6	9				
18	TOTAL										

Figure 2: Supplies for January 2021

Launch a spreadsheet application in your computer and carry out the following tasks.

1. Design the supplies sheet for January 2021 as shown in Figure 2. Merge and centre the cells in the ranges **A1:K1**, and **A6:K6** (6 marks)
2. Input appropriate formulae in the worksheet to calculate the following **for the first item** (i.e., Lenovo V15)
 - a. The **Total Quantity supplied (in cell H8)**.
Write the spreadsheet formula in the space below (2 marks)

 - b. The **Purchase Amount. [Unit Price * Total quantity] (in cell I8)**
Write the spreadsheet formula in the space below (2 marks)

 - c. The **Tax Amount in cell J8 [Purchase Amount * Tax Rate] – use the IF function.**
Write the spreadsheet formula in the space below (3 marks)

 - d. The **Total Cost. [Purchase Amount + Tax Amount] (in cell K8)**
Write the spreadsheet formula in the space below (2 marks)

3. Copy the formulae you entered in Row 8 to the appropriate cells in the range H9:K17 (2 marks)
4. Insert formulae to compute the totals in the cell range I18:K18. Write the spreadsheet formula in the cell K18 in the space below (3 marks)

5. Save your work as Task 2.
6. Print Task 2

Task 3 (10 marks)

The C and Pascal programs below are designed to allow entrance through the gates only for people wearing a face mask and whose temperatures are below 39.

C program

```
#include <stdio.h>
int main( void){
    float temp;
    char mask;
    printf("Wearing a mask (Y/N)? : ");
    scanf("%c", &mask);
    printf("What is temperature?: ");
    scanf("%f", &temp);
    if ((temp >= 39) && (mask == 'N')){
        printf("Temperature is not OK\n");
        printf("Mask is not OK\n");
        printf("Do not open Gate\n");
    }
    else if (mask == 'N') {
        printf("Mask is not OK\n");
        printf("Temperature is OK\n");
        printf("Do not open Gate\n");
    }
    else if (temp >= 39) {
        printf("Mask is OK\n");
        printf("Temperature is not OK\n");
        printf("Do not open Gate\n");
    }
    else {
        printf("Mask is OK\n");
        printf("Temperature is OK\n");
        printf("Open Gate\n");
    }
    getchar();
}
```

Pascal Program

Program Entry;

Var

temp: Real;

mask: Char;

Begin

write('Wearing a mask (Y/N)?: ');

readln(mask);

write('What is temperature?: ');

readln(temp);

if ((temp >= 39) and (mask = 'N')) then

begin

writeln('Temperature is not OK');

writeln('Mask is not OK');

writeln('Do not open Gate');

end

else if(mask = 'N') then

begin

writeln('Mask is not OK');

writeln('Temperature is OK');

writeln('Do not open Gate');

end

else if(temp >= 39) then

begin

writeln('Mask is OK');

writeln('Temperature is not OK');

writeln('Do not open Gate');

end

else begin

writeln('Mask is OK');

writeln('Temperature is OK');

writeln('Open Gate');

end;

readln;

end.

Launch either a C or Pascal development environment and type the corresponding program. Compile the program.

If any errors, keep correcting and compiling until all the errors are corrected. Save as Task 3.

1. In the table below, write the output observed for each of the following 4 runs of the program.

	Wearing a Mask	Temperature	Output
i.	Y	20	
ii.	Y	40	

iii.	N	50	
iv.	N	25	

(6 marks)

2. What must be true about the value of temperature when the following statement is executed

(1 mark)

- else if (`mask == 'N'`) in the C Program
- else if (`mask = 'N'`) in the Pascal Program

The value of temperature must be _____

3. Write a possible value of the variable `mask` when the else if (`temp >= 39`) statement is executed?

(1 mark)

A possible value of mask is _____

4. What must be true about the values of variables `temp` and `mask` when the last else statement is executed?

(2 marks)

The value of temp must _____

The value of mask must not be _____