REGISTRATION CENTRE NUMBER	CENTRE NAME
CANDIDATE'S FULL NAMES	
CANDIDATE IDENTIFICATION NUMBER	SUBJECT CODE **0595** / PAPER NUMBER 3 **Group One**

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GENERAL CERTIFICATE OF EDUCATION BOARD
ORDINARY LEVEL EXAMINATION

SUBJECT TITLE **COMPUTER SCIENCE**	SUBJECT CODE **0595**	PAPER NUMBER 3 **Group One**
	EXAMINATION DATE: **JUNE 2025**	

Duration: Two and a Half hours

Enter the information required in the shaded boxes 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.

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00/0595/3/Grp1

Do all the tasks (Task I, Task II, Task III) specified in this question paper.

TASK I (20 marks)

Marriage, Family, and Kinship in Cameroon

Marriage. Among many ethnic groups, first marriages historically were arranged with varying degrees of veto power by the potential bride and groom, but individual choice stressing companionship is becoming more common. Most southern groups prefer exogamous marriage, while the Fulani tend to be endogamous. Polygyny is a goal within many groups but is not always financially attainable. Some women prefer small-scale polygyny for the company and mutual aid a co-wife might provide.

Domestic Unit. Domestic organization varies widely throughout Cameroon. Rural polygynous compounds are composed of a male head of a household surrounded by his wives and their children. Wives and children usually sleep in separate dwellings within the compound. In both urban and rural areas, child-rearing by a close relative (a kind of foster arrangement) is common.

Inheritance. The organization of kinship varies widely, as do local rules of inheritance. The inheritance of land is often separated from that of movable property. The inheritance of wives may serve as a form of old-age insurance for women without grown children, since marriage provides access to land. Among many groups, traditional titles and honors may be inherited.

Kin Groups. Most northern groups, such as the Fulani, are patrilineal. The kinship organization of most Grassfielders, Bamiléké, and Bamoun is variously described as patrilineal or dual descent. The Kom of the Grassfields are a notable matrilineal exception. Most forest peoples are patrilineal.

Bibliography

- Alexandre, P., and J. Binet. Le Groupe Dit Pahouin, 1958.
- Ardener, E. Coastal Bantu of the Cameroons, 1956.
- Bailey, Robert C., Serge Bahuchet, and Barry S. Hewlett. "Development in the Central African Rainforest: Concern for Forest Peoples." K. Cleaver *et al.*

Extract from PAMELA. F and ELDMAN.S, World Culture Wikipedia – Bo-Co on Cameroon

You are provided with an unformatted version of the text given above.

1. Launch your word processor and open the file **marriage and kindship unformatted.doc** Save as Task 1.
   Format the file as directed below:
   - Set the page margin at 2.5cm on the left, right, top and bottom
   - Set page layout to landscape. **(3 marks)**
2. Title
   Centre the title between the left and right margins
   - Use a font size of 13 points, and make it bold **(2 marks)**
3. Body
   - Use a font size of 11 points. **(1 mark)**
   - Bold and *italicize* the start of each paragraph as shown. **(2 marks)**
   - Itemize the bibliography as shown. **(2 marks)**
   - Format the text after the bibliography as shown. **(2 marks)**
   - Set the body of the text in two columns as shown **(2 marks)**
   - Apply the *Drops Caps* feature such that the introductory text of each paragraph occupies 3 lines. **(2 marks)**
   - Insert a watermark with the text BO-CO on the page **(2 marks)**
   - Add a footer with the text World Culture centred between the left and right margins **(2 marks)**
4. Save your work as Task 1.
5. Print Task 1.

Task II (20 marks)

You are provided with a file **inflation worksheet.xls** containing the worksheet below.

	A	B	C	D	E	F	G	H	I	J
1	SN	Item	Weightage	2018 Price	2019 Price	2019 Inc	2019 % Inc	2020 Price	2020 Inc	2020 % Inc
2	1	Flour	15%	400	800			1000		
3	2	Fuel	20%	700	550			1500		
4	3	Rice	14%	200	300			700		
5	4	Sugar	30%	800	1000			1400		
6	5	Cooking oil	10%	900	1400			2000		
7	6	Tomatoes	20%	300	500			900		
8	7	Education	20%	12000	8000			19000		
9	8	Kerozene	5%	300	150			700		
10		Basket Value								
11										
12										

13		2019	2020
14	CPI		
15	Inflation Rate		
16			

Refer to the formulae below as you answer the questions that follow.

- Price increase (i.e., 2019 Inc, 2020 Inc) = New price – Old price
- % Price increase (i.e., 2019 % Inc and 2020 % Inc) = Price increase/Old price
- Basket Value for 2018 = SUMPRODUCT(C2:C9, D2:D9)
- CPI for 2019 = Basket Value for 2019/Basket Value for 2018
- Inflation rate for 2020 = (CPI for 2020 – CPI for 2019)/CPI for 2019

1. Launch your spreadsheet software and open the file. Save as Task 2.
2. Apply the percentage format to the cells in the ranges G2:G9 and J2:J9 and E14:F1 **(2 marks)**
3. Format Cells D10, E10, and H10 to display numbers with two decimal places **(2 marks)**
4. In Cell F2, enter the formula to compute **2019 Inc** for flour. Copy the formula all the way down to Cell F9. **(3 marks)**
5. In Cell G2, enter the formula to compute **2019 % Inc** for flour. Copy the formula all the way down to Cell G9. **(3 marks)**
6. In cell D10, E10 and H10, enter the formulae to compute the Basket Value for 2018, 2019, and 2020 respectively. **(3 marks)**
7. Compute CPI for 2019 and 2020 in Cells E14 and F14 respectively. **(2 marks)**
8. Compute the 2020 inflation rate in Cell F15 **(1 mark)**
9. Write the formulas you have in Cells F2, G2, I2, J2, F14 and F15 **(4 marks)**

   F2:_____

   G2:_____

   I2:_____

   J2:_____

   F14:_____

   F15:_____

10. Save Task 2.
11. Print Task 2.

Task III (10 marks)

C program

```
1.  #include <stdio.h>
2.  int main(void) {
3.      int a, b, c, prod;
4.      float avg;
5.      printf("Enter the value of a: ");
6.      scanf("%d", &a);
7.      printf("Enter the value of b: ");
8.      scanf("%d", &b);
9.      printf("Enter the value of c: ");
10.     scanf("%d", &c);
11.     avg = (float) (a + b + c) / 3.0;
12.     prod = a * b * c;
13.     if (a > b)
14.        printf("Average: %.2f\n", avg);
15.     else
16.        printf("Product: %d\n", prod);
17.     getchar();
18. }
```

Pascal program

```
1. program Numbers;
2. var
3.    a, b, c, prod : integer;
4.    avg : real;
5. begin
6.    write ('Enter the value of a: ');
7.    read (a);
8.    write ('Enter the value of b: ');
9.    readln (b);
10.   write ('Enter the value of c: ');
11.   readln (c);
12.   avg := (a+b+c)/3;
13.   prod := a * b * c;
14.   if (a > b) then
15.      writeln ('Average: ', avg:0:2)
16.   else
17.      writeln ('Product: ', prod);
18.   readln;
19.end.
```

1. Launch either a C or Pascal program development environment, and key in the corresponding program. Do not key in the line numbers, which have been provided for convenience. Compile the program. If any errors, keep correcting and compiling until the errors are all corrected. Save as Task 3. **(3 marks)**
2. Run the program three times with inputs **40 20 10**, **20 40 10**, and **20 20 10** respectively. Write in the space below, the three output lines in which the results of the computations are displayed **(3 marks)**

   Input 40 20 10_____

   Input 20 40 10_____

   Input 20 20 10_____
3. Explain what the program is designed to do. **(2 marks)**

   _____

   _____

   _____

   _____
4. Explain the effects of %.2f (in line 14 of the C program) or :0:2 (in Line 15 of the pascal Program **(2 marks)**

   _____

   _____

   _____

   _____

REGISTRATION CENTRE NUMBER	CENTRE NAME	
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CANDIDATE IDENTIFICATION NUMBER	SUBJECT CODE **0595**	PAPER NUMBER 3 **Group Two**
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ORDINARY LEVEL EXAMINATION

SUBJECT TITLE	SUBJECT CODE	PAPER NUMBER 3
COMPUTER SCIENCE	**0595**	**Group Two**
	EXAMINATION DATE: **JUNE 2025**	

Duration: Two and a Half Hours

Enter the information required in the shaded boxes 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	
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Checked by: ---------- *Signature:*---------- *Date* ----------	

Do all the tasks (Task I, Task II, Task III) specified in this question paper.

Task I (20 marks)
The following is an article written by an NGO to encourage child education

IMPORTANCE OF EDUCATION IN OUR LIFE

Education is a constitutional right of every citizen that prepares an individual to play their role as a sophisticated member of society. The importance of education can be implied by habituating the lack of its existence.

The importance of education and its significance can be understood through the life of an ignorant and illiterate person, who has never had the chance to visit the school and is experiencing the bane of illiteracy could value the answer to the question '***Why is Education an essential factor in our life?'*** He/she knows the prominence and importance of education and its changes in an individual's life.

The enormous hardship of illiteracy is its constant dependency issue. An illiterate individual depends on others for his/her survival. Education prepares its wings to fly and explore the surroundings while being confident and opportunistic. Education builds individuals, educated individuals build better societies, and better societies build great nations.

CHILD'S RIGHTS FOUNDATION

1. Launch the word processing software that is installed on your computer.
2. Set the left, right, top and bottom page margins to 2.0 cm each. **(2 marks)**
3. Type the text of the article given above. Save as Task 1 **(5 marks)**
4. Format the text of the article as directed below:
   - Title: Bold, Font Size of 18, Center between the left and right page margins **(2 marks)**
   - Body: Set line spacing to 1.5, the spacing before paragraphs to 0, and the spacing after paragraphs to 12 points. **(3 marks)**
   - Apply full justification to the paragraphs as shown. **(2 marks)**
   - Use Drop Caps by 2 lines for the first letter of the first two paragraphs. **(2 marks)**
   - Insert the image *edupower*. (provided in the candidate folder) centered at the bottom of the document as shown. **(2 marks)**
5. Add the top and bottom horizontal rules as shown. **(2 marks)**
6. Save your work as Task 1.
7. Print Task 1.

Task II (20 marks)

	A	B	C	D	E	F
1	BUDGET FOR THE TERM					
2						
3	Expenses	Jan	Feb	Mar	Total	
4	School Fees	150000				
5	Books and stationery	20000				
6	Rents	15000	15000	15000		
7	Electricity	2000	2000	2000		
8	Water	500	500	500		
9	Food	25000	25000	25000		
10	Transportation	5000	5000	5000		
11	Others	5000	10000	5000		
12						
13	Total Expenses					
14						
15	Total Income	250000	50000	52500		
16						
17	Comments					
18						

1. Launch your spreadsheet software and open the file **budget A.xls**, which is an unformatted version of the worksheet above.
2. Save as Task 2.
3. Carry out the following formatting instructions.
   - Add horizontal borders for the cells in the ranges A3:E3, A13:E13 and A15:E15 **(2 marks)**
   - Merge the cells in the range A1:E1 **(1mark)**
   - Format the heading to Bold and a size of 20 points **(1mark)**
   - Format the cells in the range B4:E15 to use the thousands separator and zero decimal place when displaying numbers **(3 marks)**
   - Set the horizontal alignment of Cells B17:E17 to Centre. **(2 marks)**
4. Use the Sum function at Cell E4 to sum the contents of the cell range B4:D4. Copy the formula down to cell E11, and also to cells E13 and E15 **(3 marks)**
5. Compute the Jan expenses in Cell B13. Copy the formula in Cells C13 and D13, to do the computation of expenses for Feb and Mar. **(2 marks)**
6. Use the **IF** function in Cell B17 to display the message **OK** if the expenses for Jan are less than or equal to income for Jan, otherwise, display the message **OVERDRAWN** **(3 marks)**
7. Write the formulas you have in Cells E4, B13, and C17 **(3 marks)**

   E4:_____

   B13:_____

   C17:_____
8. Save Task 2.
9. Print Task 2.

Task III (10 marks)

C program

```
1.  #include <stdio.h>
2.  int main() {
3.      int bmonth, byear, cmonth, cyear, age;
4.      printf("Enter your birth month: ");
5.      scanf("%d", &bmonth);
6.      printf("Enter your birth year: ");
7.      scanf("%d", &byear);
8.      printf("Enter current month: ");
9.      scanf("%d", &cmonth);
10.     printf("Enter current year: ");
11.     scanf("%d", &cyear);
12.     if (bmonth <= cmonth)
13.        age = cyear - byear;
14.     else age = cyear - byear - 1;
15.     if (age < 13)
16.        printf("Hello child, you are %d years old.\n",age);
17.     if ((age > 12) && (age < 20))
18.        printf("Hello teen, you are %d years old.\n",age);
19.     if (age > 19)
20.        printf("Hello adult, you are %d years old.\n",age);
21.     getchar();
22. }
```

Pascal program

```
1.   program Ages;
2.   var
3.      bmonth, byear, cmonth, cyear, age: integer;
4.   begin
5.       write('Enter your birth month: ');
6.       readln(bmonth);
7.       write ('Enter your birth year: ');
8.       readln (byear);
9.       write ('Enter current month: ');
10.      readln (cmonth);
11.      write ('Enter current year: ');
12.      readln (cyear);
13.      if (bmonth <= cmonth) then
14.         age := cyear - byear
15.      else age := cyear - byear - 1;
16.      if (age < 13) then
17.         writeln('Hello child, you are ', age, ' years old.');
18.      if ((age > 12) and (age < 20)) then
19.         writeln('Hello teen, you are ', age, ' years old.');
20.      if (age > 19) then
21.         writeln('Hello adult, you are ', age, ' years old.');
22.      readln;
23.  end.
```

1. Launch either a C or Pascal program development environment, and key in the corresponding program. Do not key in the line numbers, which have been provided for convenience. Compile the program. If any errors, keep correcting and compiling until the errors are all corrected.
   Save as Task 3. **(3 marks)**
2. Run the program three times with the inputs shown in the table below. Write in the space below, the last line on the screen in each case **(3 marks)**

	Birth Month	Birth Year	Current Month	Current Year
First run	10	2015	7	2020
Second run	4	2000	8	2015
Third run	6	2000	6	2020

   First run _____
   Second run _____
   Third run
3. Explain what the program is designed to do. **(2 marks)**
   _____
   _____
   _____
4. Re-write the second if statement (line 17 of the C program, or line 18 of the pascal program) but this time use the **>= 13 and <= 19** instead of the **> 12 and < 20** operators respectively. What can you say about the outputs when you run the program again using the same inputs as in (2) **(2 marks)**
   _____
   _____

REGISTRATION CENTRE NUMBER	CENTRE NAME	
CANDIDATE'S FULL NAMES		
CANDIDATE IDENTIFICATION NUMBER	SUBJECT CODE **0595**	PAPER NUMBER 3 **Group Three**

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ORDINARY LEVEL EXAMINATION

SUBJECT TITLE **COMPUTER SCIENCE**	SUBJECT CODE **0595**	PAPER NUMBER 3 **Group Three**
	EXAMINATION DATE: **JUNE 2025**	

Duration: Two and a Half Hours

Enter the information required in the shaded boxes 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.
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Calculators are NOT allowed.

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Checked by: ---------- *Signature:*---------- *Date* ----------	

Do all the tasks (Task I, Task II, Task III) specified in this question paper.

Task I (20 marks)

Figure 1 shows a story typed and enclosed in a frame. Your task is to type, edit and format the text as requested.

Dealing with COVID-19 in Cameroon

In Cameroon, there was initially a sense of optimism that, somehow, Africa, unlike other regions, would manage to avoid the catastrophic consequences of the pandemic. There was little awareness that Cameroon was most likely just a matter of a few weeks behind.

By May 2020, Cameroon was the most affected country in the region and second in sub-Saharan Africa, with a quickly rising rate of infections. The scarcity of test kits obviously hides the real number of infections. Counting individual infections, recoveries and fatalities did not provide the real picture. UNAIDS advocated for a modelling of the epidemic in order to enable quantification of health-care needs and procurement.

As the first COVID-19 cases were detected in Yaoundé, a small number of health-sector officials gathered with the Minister of Health to discuss and plan epidemic containment and impact mitigation measures. One of the United Nations officials was requested to be part of the group, given UNAIDS' experience in epidemic management. She underscored the need to build on existing systems and make use of the community-driven efforts of the national AIDS response. She equally advocated for frontloading investments in communication and community mobilization to prevent COVID-19 infections, using a multisectoral approach.

Source: https://www.unaids.org/en/resources/presscentre/featurestories/2020/may/20200511_covid19-cameroon

Figure 1

1. State the name and version of the word processor that is installed on your computer

   _____ **(1 mark)**

2. Launch the word processor and type the text in Figure 1. Do include bounding box **(6 marks)**

3. Format the document as directed below:

- Title: Bold, center, font size: 18 **(2 marks)**
- Body: Apply full (i.e., left-right) justification **(2 marks)**
- Font size: 12 **(1 mark)**
- Apply Drop Caps of two lines to the first letter of the first paragraph. **(2 marks)**

4. Insert a page number as a footer, positioned at the bottom left of the page. **(2 marks)**
5. Change the text from block paragraphing to indented paragraphing **(2 marks)**
6. Search for all occurrences of COVID-19 and change the text colour to red and background colour to yellow. **(2 marks)**
7. Save your work as Task 1 and print a copy.

Task II (20 marks)

Study the data in the Figure 2 and answer the questions that follows.

	A	B	C	D	E	F
1	BUDGET FOR THE TERM					
2						
3	Expenses	Jan	Feb	Mar	Total	
4	School Fees	150000				
5	Books and stationery	20000				
6	Rents	15000	15000	15000		
7	Electricity	2000	2000	2000		
8	Water	500	500	500		
9	Food	25000	25000	25000		
10	Transportation	5000	5000	5000		
11	Others	5000	10000	5000		
12						
13	Total Expenses					
14						
15						
16	Income	Jan	Feb	Mar	Total	
17	From parents	200000				
18	Scholarships	25000	25000	25000		
19	From part-time work	25000	25000	27500		
20						
21	Total Income					
22						
23	Comments					
24						

Figure 2

1. Launch your spreadsheet software and open the file **budget B.xls**, which is an unformatted version of the worksheet above.
2. Save as Task 2.
3. Carry out the following formatting instructions.
   i. Add horizontal borders for the cells in the ranges A3:E3 and A16:E16 **(2 marks)**
   ii. Merge the cells in the range A1:E1 **(1mark)**
   iii. Format the heading to Bold and a size of 20 points **(1mark)**
   iv. Format the cells in the range B4:E21 to use the thousands separator and zero decimal

place when displaying numbers **(4 marks)**

v. Set the horizontal alignment of Cells B23:E23 to Centre. **(2 marks)**

4. Use the Sum function at Cell E4 to sum the contents of the cell range B4:D4. Copy the formula down to Cell E11, and also to Cells E17 to E19 and Cell E21. **(3 marks)**
5. Compute the Jan expenses in Cell B13. Copy the formula in Cells C13 and D13 to do the computation of expenses for Feb and Mar. **(2 marks)**
6. Compute the Jan income in Cell B21. Copy the formula in Cells C21 and D21 to do the computation of expenses for Feb and Mar. **(2 mark)**
7. Use the **IF** function in Cell B23 to display the message **Good** if the expenses for Jan are less than or equal to income for Jan, otherwise, display the message **Bad**. **(3 marks)**
8. Save Task 2.
9. Print Task 2.

Task III (10 Marks)

The **Body Mass Index (BMI)** is a value derived from the mass (weight) and height of an individual, male or female.

Note the following:

- BMI = (mass or weight)/(height*height) expressed in units of Kg/m^2,
- height is in meters
- mass or weight is in Kg

C program

```
#include<stdio.h>
int main() {
  float w1, h1, bmi1, w2, h2, bmi2;
  printf("Enter Mary's height in metres: ");
  scanf("%f", &h1);
  printf("Enter Mary's weight in kilograms: ");
  scanf("%f", &w1);
  printf("Enter John's height in centimetres: ");
  scanf("%f", &h2);
  printf("Enter John's weight in grams: ");
  scanf("%f", &w2);
  bmi1 = w1/(h1*h1);
  bmi2 = (w2/1000)/(h2/100 * h2/100);
  printf("\nBody Mass Index\n");
  printf("Mary: %.2f\n", bmi1);
  printf("John: %.2f\n", bmi2);
  getchar();
}
```

Pascal program

```
1.  Program BMI;
2.  Var
3.    w1, h1, bmi1, w2, h2, bmi2 : real;
4.  Begin
5.    write('Enter Mary''s height in metres: ');
6.    readln(h1);
7.    write ('Enter Mary''s weight in kilograms: ');
8.    readln(w1);
9.    write ('Enter John''s height in centimetres: ');
10.   readln(h2);
11.   write ('Enter John''s weight in grams: ');
12.   readln(w2);
13.   bmi1 := w1/(h1*h1);
14.   bmi2 := (w2/1000)/(h2/100 * h2/100);
15.   writeln;
16.   writeln ('Body Mass Index');
17.   writeln ('Mary: ', bmi1:0:2);
18.   write ('John: ', bmi2:0:2);
19.   readln();
20. End.
```

1. Launch either a C or Pascal program development environment, and key in the corresponding program. Do not key in the line numbers, which have been provided for convenience. Compile the program. If any errors, keep correcting and compiling until the errors are all corrected. Save as Task 3. (3 marks)
2. Run the program two times, with the following inputs, and write the last three output lines in each case.

	First run	Second run
Mary's height in metres	1.5	1.5
Mary's weight in kilograms	65	65
John's height in centmetres	160	150
John's weight in grams	70000	65000

Output for first run **(2 marks)**

_____

_____

_____

Output for second run **(2 marks)**

_____

_____

_____

- Examine the output for the second run. How do John's and Mary's body mass index compare? Explain the results. **(3 marks)**

REGISTRATION CENTRE NUMBER	CENTRE NAME	
CANDIDATE'S FULL NAMES		
CANDIDATE'S IDENTIFICATION NUMBER	SUBJECT CODE **0595**	PAPER NUMBER 3 **Group Four**
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GENERAL CERTIFICATE OF EDUCATION BOARD
ORDINARY LEVEL EXAMINATION

SUBJECT TITLE	SUBJECT CODE	PAPER NUMBER 3
COMPUTER SCIENCE	**0595**	**Group Four**
	EXAMINATION DATE: **JUNE 2025**	

Duration: Two and a Half Hours

Enter the information required in the shaded boxes 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.

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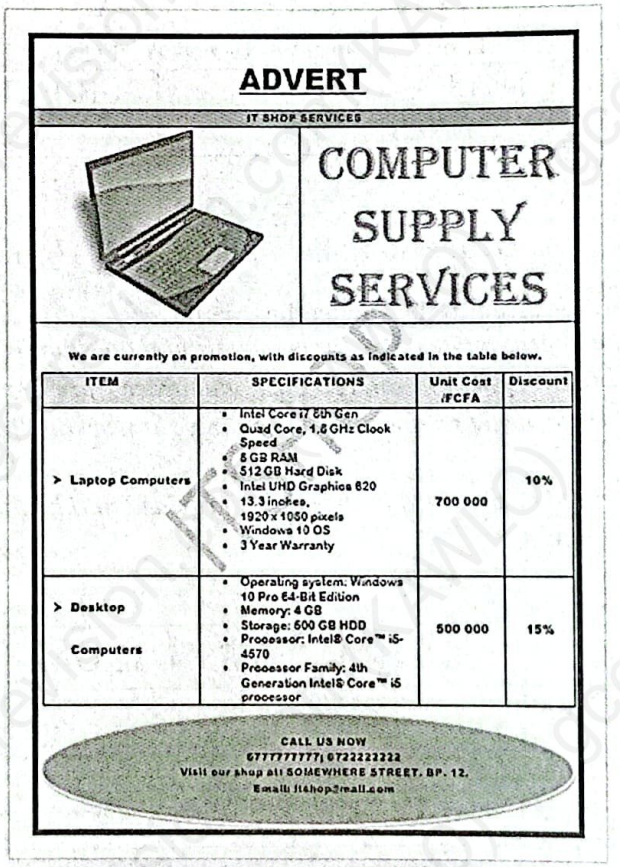
Do all the tasks (Task I, Task II, Task III) specified in this question paper.

Task 1 (20 marks)

The objective of this task is to test your ability to use word processor features to design a Flyer to advertise the services offered by an IT company named ITSHOP. Carefully follow the instructions given to design the sample form in Figure 1 below.



ADVERT

IT SHOP SERVICES

COMPUTER SUPPLY SERVICES

We are currently on promotion, with discounts as indicated in the table below.

ITEM	SPECIFICATIONS	Unit Cost /FCFA	Discount
> Laptop Computers	• Intel Core i7 8th Gen • Quad Core, 1.8 GHz Clock Speed • 8 GB RAM • 512 GB Hard Disk • Intel UHD Graphics 620 • 13.3 inches, 1920 x 1080 pixels • Windows 10 OS • 3 Year Warranty	700 000	10%
> Desktop Computers	• Operating system: Windows 10 Pro 64-Bit Edition • Memory: 4 GB • Storage: 500 GB HDD • Processor: Intel® Core™ i5-4570 • Processor Family: 4th Generation Intel® Core™ i5 processor	500 000	15%

CALL US NOW
677777777/ 6722222222
Visit our shop at SOMEWHERE STREET, BP. 12.
Email: itshop@mail.com

Figure 1: Sample Flyer for advert

Launch any word processor application installed on your computer and:

1. Set paper size to A4; Left, Right, top and bottom margins to Narrow (1.27 cm). **(1mark)**
2. Insert a page border with full line style, and width 6 points. **(1mark)**

3. Key in the title: ADVERT. Set font to Arial Black or any other sans serif font, size 28, center align and underline. **(2 marks)**
4. Implement the section below the title as follows:
   a. Insert a table with 2 rows and 2 columns. **(1mark)**
   b. Merge the cells in the first row and key in the information: IT SHOP SERVICES **(1mark)**
   c. In Row 2 Column 1, insert the image of the computer given in your candidate folder and set the height and width to 6.9 cm respectively. **(2 marks)**
   d. In Row 2 Column 2, type: COMPUTER SUPPLY SERVICES. Set font type to Algerian or any other decorative font, size 48, font color to Green. **(2 marks)**
5. Implement the next section of the flyer as shown in Figure 1. **(2 marks)**
   a. In a new line, key in the information: **We are currently on promotion, with discounts as indicated in the table below.** **(1mark)**
   b. Insert a table and key in the table information shown in Figure 1. **(4 marks)**
6. Insert an oval shape and type the following contact information: **(3 marks)**

   Call us now
   677777777/67222222
   Visit our shop at SOMEWHERE STREET, BP 12
   Email: itshop@mail.com
7. Format the oval shape with the Colored Fill, White Outline-Accent 1 Text box Style. **(1mark)**
8. Insert a watermark and customize the text to the name of the company: **ITSHOP**
9. Save your work as Task 1.
10. Print as Task 1.

TASK 2 (20 marks)

In this task, you are required to design/implement an invoice using spreadsheet software.

	A	B	C	D	E	F	G	H
1								
2								
3								
4								
5	S/N	ITEM	QUANTITY	UNIT PRICE	TOTAL	TAX AMOUNT	TOTAL WITH TAX	
6	1	LENOVO 100e G2	2	250000				
7	2	HP 255 G8 Notebook	3	300000				
8	3	HP 250 G8 Notebook	14	400000				
9	4	HP 240 G8	10	600000				
10	5	HP Laptop 15	5	150000				
11	6	HP Elitebook 830 G7	8	450000				
12	7	HP Pavilion X360	5	200000				
13	8	HP 240 G8 Notebook PC	20	150000				
14		TOTAL						
15								

1. Use your spreadsheet software to open the file **Invoice.xls** that is provided in the candidate folder and is also printed above.
2. Merge and Center the cell range A1:G1 and key in the information: **Invoice Number 025** **(2 marks)**
3. In cells F2 and F3, key in the information **LOW** and **HIGH** respectively **(1mark)**
4. Format the cells G2 and G3 as percentage and key in the values 2% and 5% in these two cells **(1mark)**
5. Apply borders to all the table cells **(2 marks)**
6. Format the cells in the range D6:G14 to hold numbers, use a thousand separator, and 0 decimal place **(3 marks)**
7. Input appropriate formulae in the cells indicated below:

a. In cell E6 to calculate the **TOTAL** amount. [*QUANTITY*UNIT PRICE*]

Write the spread sheet formula in the space below

_____ **(1 mark)**

b. In cell **F6** to calculate the **TAX AMOUNT. [2% of TOTAL if TOTAL amount is less than or equal to 500000, and 5% otherwise]**. *Use the IF function, and refer to cells G2 and G3 to get the percentages. Use mixed cell references so that when you copy your formula vertically, the results would be correct.*

Write the spreadsheet formula in the space below

_____ **(3 marks)**

c. In cell **G6** to calculate the **TOTAL WITH TAX**. [TOTAL + TAX AMOUNT]

Write the spreadsheet formula in the space below

_____ **(1mark)**

d. In cell **C14** to calculate the total number of items.

Write the spreadsheet formula in the space below

_____ **(1 mark)**

8. Explain how you would go about filling values in cell ranges E7:G13 and D14:G14.

E7:G13_____

_____

D14:G14_____

_____

(3 marks)

9. Apply this technique or otherwise to insert the required formulae on the cell ranges indicated.

(2 marks)

10. Save your work as Task 2.

11. Print your work

Task III (10 Marks)

The **Body Mass Index (BMI)** is a value derived from the mass (weight) and height of an individual, male or female.

Note the following:

- BMI = (mass or weight)/(height*height) expressed in units of Kg/m^2,
- height is in meters
- mass or weight is in Kg

C program

```
1.  #include<stdio.h>
2.  int main() {
3.    float w, h, bmi;
4.    printf("Enter height in metres: ");
5.    scanf("%f", &h);
6.    printf("Enter weight in kilograms: ");
7.    scanf("%f", &w);
8.    bmi = w/(h*h);
9.    printf("\nBody Mass Index: %.2f\n", bmi);
10.   getchar();
11. }
```

Pascal program

```
1.   Program BMIndex;
2.   Var
3.     w, h, bmi : real;
4.   Begin
5.     write('Enter height in metres: ');
6.     readln(h);
7.     write ('Enter weight in kilograms: ');
8.     readln(w);
9.     bmi := w/(h*h);
10.    writeln;
11.    writeln ('Body Mass Index: ', bmi:0:2);
12.    readln();
13.  End.
```

1. Launch either a C or Pascal program development environment, and key in the corresponding program. Do not key in the line numbers, which have been provided for convenience. Compile the program. If any errors, keep correcting and compiling until the errors are all corrected. Save as Task 3. **(3 marks)**

2. What is the collective name for **w**, **h**, and **bmi** that are used in the program? **(1mark)**

_____

3. What is the effect of **%.2f** on Line 9 of the C program, or **:0:2** on Line 11 of the Pascal program?

_____

_____

(2 marks)

4. Run the program with the following inputs, and write the last output line in the space provided below **(1mark)**

Height in metres	1.5
Weight in kilogram	65

_____

5. Re-write the statement you would use in Line 8 of the C program, or Line 9 of the Pascal program if the height was given in centimetres and the weight in kilograms **(1mark)**

_____

6. Re-write the statement you would use in Line 8 of the C program, or Line 9 of the Pascal program if the height was given in centimetres and the weight in grams **(2 marks)**