P2/2025
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SOUTH WEST REGIONAL MOCK EXAMINATION
GENERAL / TECHNICAL AND VOCATIONAL EDUCATION

THE TEACHERS' RESOURCE UNIT (TRU)
Cellule d'appui à l'action Pédagogique

IN COLLABORATION WITH
En collaboration avec

THE REGIONAL INSPECTORATES OF PEDAGOGY AND

THE SUBJECT TEACHERS' ASSOCIATIONS (STA)

WEDNESDAY,25/03/2025   INTERMEDIATE/ORDINARY LEVEL

Subject Title	Information and Communication Technology
Subject Code Number	0596
Paper Number	Paper 2

TWO HOURS

INSTRUCTIONS TO CANDIDATES:

This paper carries SEVEN questions. *Answer any FIVE questions.*

Each question carries 20 marks. For your guidance, the approximate mark for each part of a question is indicated in brackets.

If you answer MORE THAN FIVE questions, ONLY the first FIVE answers presented will be marked and the other cancelled.

You are allowed to use CALCULATORS

You must use ONLY Blue or Black ink. No answer in Pencil will be marked.

All Appendices filled or completed should be handed in with your answer booklet.

All necessary calculations must be shown.

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

You are advised to read carefully through the question paper, before you begin your answers.

1. (a) Computer systems need protection from natural hazards like *floods* and *fire*. Describe Two other threats that may impede a computer system   (4 marks)
    (b) (i) What is a file format? Name any two types of file formats   (3 marks)
        (ii) State two reasons why file formats vary   (2 marks)
    (c) Give the full meaning of each the following file extensions and state the purposes for which they are used .pdf, .mpeg   (2 marks)
    (d) (i) What is a transmission media?   (2 marks)
        (ii) State three reasons why it will be preferable to use wireless communication rather than wired.   (3 marks)
    (e) Define the following in relation to Database   (2 marks)
        (i) Foreign key
        (ii) Primary key
    (f) What is the difference between data verification and data validation   (2 marks)

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2. (a) Complete the table below by stating the most appropriate type of software or program that can be used for the Stated task.   (4 marks)

	Task	Type of software
a	To create, edit and format text, like letters, reports and fliers	
b	To present information on the activities of an organization to the board of directors during a seminar	
c	To work with numbers, calculations, charts and graphs	
d	To organize and access large amounts of data	

    (b) Give the main function of the following hardware in a computer system
        (i) Video card   (2 marks)
        (ii) Expansion slot   (2 marks)
        (iii) Ethernet card   (2 marks)
    (c) Explain the following terms
        (i) Simulation   (2 marks)
        (ii) Videoconferencing   (2 marks)
        (iii) Telecommuting   (2 marks)
    (d) (i) What is ergonomics?
        (ii) Give two recommendations you will give a secretary suffering from back pain and eyestrain.   (2 marks)
        (iii) what is the difference between batch processing and online processing?   (2 marks)

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3. (a) Name the principal storage memory of a computer on which all programs must be loaded before they are run   (2 marks)
    (b) Define the following storage units
        (i) Bit
        (ii) Byte
        (iii) Word size   (6 marks)
    (c) How many bytes are contained in the following:
        (i) 1.75 KB
        (ii) 116 MB
        (iii) 0.5 GB   (6 marks)
    (d) How many bits do we need to store ONE alpha number character in ASCII code?   (1 mark)
    (e) A page of text contains 60 lines and 80 characters per line, including spaces. Calculate how many of such pages can be stored in a 3 ½ inch HD (High Density) diskette
        Hint: One character is stored in one byte   (3 marks)
    (e) How does the processing speed of a computer vary with the size of the main memory and   (2 marks)

The FOUR main categories of general purpose computers are usually distinguished based on factors Such as *physical size*, *processing capabilities*, *memory* and *disk space* as well as *cost*. Name the four main categories and classify them according to size and power **(6 marks)**

Name the ergonomic health hazards caused as a result of the following;

(i) Prolonged typing

(ii) Poor lighting

(iii) Poor posture **(3 marks)**

(c) What are the functions of the following

(i) Main memory

(ii) System bus

(iii) Uninterrupted power supply **(3 marks)**

(d) Briefly explain the function of a modem in communication **(4 marks)**

(e) Give the full meaning of the following acronyms

(i) EBCDIC

(ii) ENIAC

(iii) WIMP

(iv) GUI **(1 x 4 = 4 marks)**

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5. (a) (i) Name and explain three components of an information system **(3marks)**

(b) What is the function of the following types of information systems

(i) Geographic Information System

(ii) Expert System **(2marks)**

(c) Explain the following terms in relation to data security

(i) Encryption

(ii) Biometrics

(iii) Firewall **(3marks)**

(d) "Most **ISP**s in Cameroon provide internet connectivity to major banks. Internet connectivity requires the **TCP/IP** while web use requires the **HTTP**. Interestingly some banks prefer **DSL**; some go for **ADSL** and some others for Broadband connections…"

(i) Write the highlighted abbreviations in full **(4 marks)**

(ii) What is the role of the TCP/IP and HTTP **(2marks)**

(e) Explain the following in relation to Database

(i) Records **(2marks)**

(ii) Fields **(2marks)**

(iii) Entity **(2marks)**

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6. (a) What is the difference between Formatting a document and Editing a document ? **(3 marks)**

(b) Explain Word wrap as used in word processing? **(3 marks)**

(c) What is scrolling, and how does it apply to computer applications ? **(4 marks)**

(d) Name FOUR advantages of using a computer to type and edit a document rather than using a typewriter **(4 marks)**

(e) What is a backing storage device? Give TWO examples **(4 marks)**

(f) Explain the term software piracy **(2 marks)**

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7. (a) write the following in full as used in computing
   (i) CMOS
   (ii) RAM
   (iii) BIOS
   (iv) CPU
   (v) POST   (5marks)

   (b) (i) What is a computer port?   (2marks)
       (ii) Name three (03) computer ports and state a device that can be connected to each port
            named.   (6marks)

   (c) Name three types of computer buses and give the role of each (6marks)

   (d) Define the term motherboard?   (1 mark)

END