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SOUTH WEST REGIONAL MOCK EXAMINATION

GENERAL EDUCATION

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

IN COLLABORATION WITH
En collaboration avec
THE REGIONAL INSPECTORATES OF PEDAGOGY AND

THE SUBJECT TEACHERS' ASSOCIATIONS (STA)

THURSDAY, 23RD MARCH 2023 **INTERMEDIATE LEVEL**

Subject Title	**Information and Communication Technologies**
Paper Number	**Paper 2**
Subject Code Number	**0596**

TWO AND A HALF HOURS

INSTRUCTIONS TO CANDIDATES:

Answer any five questions.

All questions carry equal marks. For your guidance, the approximate mark for each part of a question is indicated in brackets.

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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.

Calculators are NOT allowed

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1a) Explain the following terms as used in computer network. **(6marks)**

i) Parallel transmission

ii) Half-duplex transmission

iii) Asynchronous transmission

b) Differentiate between a router and a switch **(4 marks)**

c) i) What is video conferencing? **(2 marks)**

ii) List two advantages and two disadvantages of video conferencing **(4 marks)**

d)i) State two ways that a computer system can be infected by computer viruses? **(2 marks)**

ii) List two ways through which the computer system can be protected from computer viruses?. **(2 marks)**

2a) Define the following as used in computing, giving an example in each case. **(8 marks)**

i) Softcopy

ii) RAM

iii) Secondary Storage

iv) Utility software

b) Give a difference between Information and Data **(2 marks)**

c) Differentiate between the following computer terms. **(6 marks)**

i) Intranet and Extranet

ii) Bits and Bytes

iii) Updating and Upgrading

d) State four incidents that can lead to data loss in a computer system **(4 marks)**

3a) i) What is Ergonomics? **(2 marks)**

ii) List three things that can lead to health hazard as a result of using a computer in a work place. **(3 marks)**

iii) State three preventive measures that can be used to solve the health hazards listed above **(3 marks)**

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b) Differentiate between a non-impact printer and an impact printer giving an example in each case **(4 marks)**

c) Convert the following

i) 1101101_2 to decimal **(2 marks)**

ii) 110101_2 to octal **(3 marks)**

iii) $B7D_{16}$ to binary **(3 marks)**

4a)i) Define computer Housekeeping. **(2 marks)**

ii) list a hardware and a software that can be used to enhance computer housekeeping **(2 marks)**

b) For each of the following computer generations, state the technology used. **(3 marks)**

Generation	Technology
5th	
3rd	
1st	

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c i) List three functions of an operating system **(3 marks)**
ii) Give two examples of an Operating System **(2 marks)**
iii) Differentiate between mono-task OS and multi-user OS **(2 marks)**
d) What do you understand by the following in database? **(6 marks)**
- A primary key
- A query
-A database Management system

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5) a) Given the following file path:

C:\ My Documents\ 596 ICT\ mock2023.xls
1 2 3 4 5

i) List the parts of the file path labeled from 1 to 5 **(5 marks)**
ii) Which application software is used to open the file **(1 mark)**
b) Evaluate the following in binary. **(4 marks)**
i) $1110011_2 + 110110_2$
ii) $10101_2 - 110_2$
c) Arrange the software below under the following software headings **(6 marks)**

Utility	Device Driver	Application software	Operating system

Android, Sound drive, disk defragmenter, MS Office suite, Windows, Firewall

d) Give two differences between graphical user interface (GUI) and command line interface (CLI) **(4 marks)**

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6 a) i) Define a password **(2 marks)**
ii) Give two characteristics of a good password **(2 marks)**
b) List two components of a CPU and state their functions **(4 marks)**
c) i) What do you understand by term network topology? **(2 marks)**
ii) With the aid of a sketch diagram in each case, describe two network topologies **(4 marks)**
d) List and explain three components of an Information system **(6 marks)**

7a) Define a computer Clipboard **(2 marks)**
b) i) State three components found on a computer motherboard **(3 marks)**
ii) Differentiate between the following: **(6 marks)**
-a UPS and a stabilizer
-a file and a folder
- cold booting and warm booting
c) list and explain three different types of computer malware. **(6 marks)**
d) Give the functions of the following computer keyboard keys **(3 marks)**
i) Enter key
ii) Backspace key
iii) Tab key

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