

NAME: INDEX NO:
SCHOOL: SIGNATURE:

840/1
COMPUTER
STUDIES
Paper 1
July./Aug. 2023
2½ hours



**WAKISO-KAMPALA TEACHERS' ASSOCIATION
(WAKATA) WAKATA MOCK EXAMINATIONS 2023**

**Uganda Certificate of
Education**

COMPUTER STUDIES

Paper 1 (Theory)

2hours and 30 minutes

INSTRUCTIONS TO CANDIDATES:

- ⦿ Write your **NAME**, **SIGNATURE** and **STREAM** in the spaces above.
- ⦿ This paper consists of three Sections A, B and C.
- ⦿ Section A contains 20 **compulsory** objective type questions.
- ⦿ The correct alternative A, B, C or D must be written in the **box provided** besides each question. Only the final choice of alternative should be written. Unclear and crossed out work will **NOT** be marked.
- ⦿ Section B contains **six compulsory** structured questions
- ⦿ Answers to Section B must be written in the spaces provided in the question paper.
- ⦿ Section C contains three equally weighted essay questions. Answer only one.
- ⦿ Answers to Section C must be written in the answer sheets provided.
- ⦿ Any additional question(s) answered will not be marked.

For Examination Use Only

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

SECTION A: 20 MARKS

This section is **compulsory**. Write the answers in the box besides each question

1. A computer can do one kind of task over and over again without getting tired or bored. This quality is known as:
A. Accuracy. B. Speed. C. Diligence. D. Versatility.
2. ASCII and EBCDIC are the popular character coding systems. What does **EBCDIC** stand for?
A. Extended Binary coded Decimal Interchange Code
B. Extended Bit Code Decimal Interchange Code
C. Extended Bit Case Decimal Interchange Code
D. Extended Binary Case Decimal Interchange Code
3. is the best type of printer recommended for high quality graphic printouts.
A. Dot-matrix B. Braille C. Inkjet D. LaserJet
4. Which of these is not a process state in computer programming?
A. Terminated B. Running C. Blocked D. Execution
5. This feature uniquely represents every record as a single item in the database table in database management systems.
A. Primary key B. Validation rule C. Auto number D. Field size
6. Compact disks, DVDs and use laser technology to read & write data on the media.
A. Hard disks B. Blu- rays C. Memory cards D. Flash drives
7. Which of these best describes an address bus in computer system.
A. A bus which transfers the actual data from one part to another
B. A bus which directs information about where the data should go in memory.
C. An instruction pathway in a computer
D. An instruction sent to the central processing unit.
8. How many bytes do 4 Kilobytes represent?
A. 512. B. 1024. C. 4096. D. 8192.
9. is the one-word term used to refer to the setup procedure of putting new programs into our computer?
A. Copying B. Encrypting C. Installation D. Compressing
10. A communications device which is used to connect two different networks especially a connection to the internet is known as.
A. MODEM B. Router
C. Gateway D. Bridge

D. A radio button as used in most application programmes helps:

- a. Users to select only one item from the given list
- b. Users to select multiple items from the given list
- c. Users to play or pause music while using an application
- d. Users to edit and format data easily when using an application

☐

E. Unwanted and repetitive messages such as unsolicited bulk email is known as:.....

- a. Spam
- B. Trash
- C. Bugs
- D. Viruses

☐

F. Which of these would strongly influence you as a computer student before buying a laptop for your business during your vacation?

- a. Accuracy
- B. Reliability
- C. Speed
- D. All of above

☐

G. A close look at the motherboard shows that some chips are soldered to the board whilst others are plugged into the board. The removable chips allow you to

- a. Add extra power sources to your computer.
- b. Integrate the ALU and the system clock unit.
- c. Re-arrange the layout of your motherboard.
- d. Upgrade your computer components.

☐

H. Computers in the second generation were mainly characterised by.....

- a. Vacuum tubes.
- c. Artificial Intelligence.
- b. Integrated Circuits.
- d. Transistors.

☐

I. Which of the following is a standard example of a valid Uniform Resource Locator (URL)?

- A. [http//: www.newvision.co.ug/sports](http://www.newvision.co.ug/sports)
- B. [http:/ www.newvision.co.ug/sports](http://www.newvision.co.ug/sports)
- C. [http: www.newvision.co.ug/sports](http://www.newvision.co.ug/sports)
- D. <https://www.newvision.co.ug/sports>

☐

J. Mafabi sent his music files from his laptop to his Online drive and now he can access them from anywhere. The activity which Mafabi did is called.

- a. Uploading.
- B. Under loading.
- C. Downloading.
- D. Sharing.

☐

D. What type of resource is likely to be shared by a number of computers in a computer network?

- A. Printers
- B. Speakers
- C. CD drives
- D. Keyboards

☐

B. Which one of the following is an example of application software?

- a. Windows 10
- B. Smadav Antivirus
- b. C. Machine code
- D. Microsoft Word

☐

C. In spreadsheets, which expression tells how the numbers in a determined set of cells are to be calculated?

- A. Formula B. Cells
 C. A syntax D. Cell formatting



SECTION B (60 MARKS)

Attempt all questions in this section in the spaces provided.

D. (a). (i). What is ROMBIOS in full? **(01 mark)**

.....

(ii). State any two functions of ROMBIOS in a computer **(02 marks)**

.....

(b). Mention two components which are connected internally to a computer's motherboard. **(02 marks)**

.....

(c). List four instances where a computer will require a warm boot. **(04 marks)**

.....

(d). Give any two symptoms shown by computers infected with viruses? **(02 marks)**

.....

E. (a) List three differences between a micro-computer and a main frame computer. **(03 marks)**

.....

NAME: INDEX NO:
SCHOOL: SIGNATURE:

(b) Give two functions performed by human ware (users) as a component in a computer system. **(02 marks)**

.....
.....
.....

(c) What do you understand by the term presentation software. **(02 marks)**

.....
.....
.....

(d) What do the following terms mean in presentation software. **(03 marks)**

(i) Slide layout.....

.....

(ii) A Slide.....

.....

(iii) Animations.....

.....

23 (a) Give any **two** examples of database management software. **(02 Marks)**

.....
.....

(b) Distinguish between a **field** and a **record** as used in databases. **(02 Marks)**

.....
.....
.....
.....

(c) State circumstances under which the following data types are used in database management software. **(04 Marks)**

Data type	Use
Text	
Date/time	
Currency	
OLE object	

(d) What do the following errors mean in spreadsheets. (02 marks)

(i) #####.....

(ii) #REF!.....

24. (a) List any two ways the internet can be used to promote education. (02 marks)

(b) Give three factors to be considered when choosing network topology. (03 marks)

(c) State three reasons why a school should use email communication instead of sending physical correspondences. (03 marks)

(d) State two functions of TCP/IP in data communication. (02 marks)

25. (a) Differentiate between Graphical user interface and command line interface. (02 marks)

(b) In the table provided below, mention the **software** which performs the under listed function. (04 marks)

Software Function	Name of the software
A program which helps the operating system to communicate with the hardware connected to the computer.	
A program which manages a computer's memory, hardware and computer configuration.	
A software that allows a user to perform	

NAME: INDEX NO:
 SCHOOL: SIGNATURE:

maintenance-type tasks, usually related to managing a computer, its devices, or its programs	
A software which translates entire program written in a high-level language into machine code language at once before it is executed.	

(c). What is the use of a **webpage** title in web publishing? (02 marks)

(d) State two reasons why a business institution needs to a website. (02 marks)

26. (a) (i) What is a peripheral device? (02 marks)

(ii) State any three peripheral devices used with desktop computers. (03 marks)

(b) State the practical use of each of the following keyboard buttons. (03 marks)
 (i) Esc
 (ii) Shift
 (iii) Delete

(c) Give two operations performed by the mouse as an input device. (02 marks)

NAME: INDEX NO:
SCHOOL: SIGNATURE:

SECTION C: 20 MARKS

Attempt only one question in this section.

27. A computer laboratory is a very important and sensitive facility where computers and related equipment are kept as well as used from. Describe any five facilities required in the laboratory to improve the security of computers. **(20 marks)**
28. (a) Prolonged use of computers has been a big threat to human health. Explain five health hazards associated with the use of computers. **(10 marks)**
(b) Describe any five measures you can take to reduce the above mentioned health problems. **(10 marks)**
29. (a) A flash disk is the commonest storage media in our society today. Show the different steps involved when storing data on a flash disk. **(10 marks)**
b) Describe the process of how a hard disk is formatted in preparation for new storage. **(10 marks)**

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