

Student's Name.....

Signature .....Personal Number.....

*(Do not write your school, or Center Number anywhere on this booklet)*

840/1

COMPUTER STUDIES

Paper 1

July/August 2023

2½ hours



# Uganda Certificate of Education

COMPUTER STUDIES

Paper 1

2 hours 30 minutes

## INSTRUCTIONS TO STUDENTS:

*Write your names, signature, Personal Number 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 on the right hand side of each question.*

*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** essay questions. Answer only **one**. Answers to section **C** must be written in the answer sheet provided.*

*Any additional question(s) answered will **not** be marked.*

## For Examiners' Use Only

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	SEC: C	TOTAL

**SECTION A (20 MARKS)**

*Attempt all questions in this section*

1. Which one of the following tools would be the best for cleaning the outer surface of a monitor?  
A. Dust blower  
B. Form cleaner  
C. Pliers  
D. Screw driver. ☐
2. At what stage of the following stages would flow charts be used in the programming process?  
A. Testing stage  
B. Design stage  
C. Program coding stage.  
D. Implementation stage. ☐
3. Computer errors reporting to the user is a preserved function of.....  
A. Application software platforms  
B. Operating system software  
C. System utilities  
D. Network administrator. ☐
4. Which one of the following memory units is usually provided in system peripheral units?  
A. Buffer memory  
B. Cache memory  
C. BIOS  
D. Virtual memory. ☐
5. Which one of the following roles is the main function of a software interface?  
A. Storage of information  
B. Enable the user to interact well with the software  
C. Warning the user in cases of danger  
D. Outputting data ☐
6. The computer system maintains its configurations like date and time right even when the system is switched off from the main power source because of its?  
A. CMOS  
B. RAM  
C. Automation  
D. CMOS battery ☐
7. A single structure representing a set of related data in a database table is referred to as.....  
A. Field  
B. Report  
C. Record  
D. Query ☐

8. The standard protocol for Internet related electronic mails is.....  
A. TCP/IP  
B. OSI  
C. SMTP  
D. NOS ☐
9. Which one of the following data transmission media would offer a user the least data through-put?  
A. Twisted pair  
B. Optical fiber  
C. Coaxial  
D. Microwave ☐
10. An active cell of a spreadsheet can easily be identified by?  
A. Name box  
B. Formulae bar  
C. Worksheet tab  
D. Worksheet charts ☐
11. Which one of the following document processors is a word processor engine?  
A. Note pad  
B. Word wrap  
C. WordPad  
D. Lotus ☐
12. The power-on self-test (*POST*) is run by...  
A. BIOS.  
B. Operating system  
C. Log-on  
D. Boot strap loader. ☐
13. ....is a web page that allows users to make adjustments in the content previously uploaded.  
A. Blog  
B. Wiki  
C. Aggregator  
D. News group ☐
14. Which one of the following statements is true about data values when they appear in a spreadsheet cell?  
A. They are dressed in inverted quotation marks in logical functions  
B. They usually left aligned by default  
C. They are usually followed by a comma  
D. They are usually right aligned in a cell by default ☐

15. Which one of the following is not a navigation tool of slides during a presentation
- A. Hyperlink
  - B. Action button
  - C. Remote sensor
  - D. Slide master
16. Which one of the following word processor proof reading tools would enable a user to quickly replace some words in a document with other words?
- A. Autocorrect
  - B. Autocomplete
  - C. Spelling and grammar checker
  - D. Thesaurus
17. Which one of the following measures would ensure that changes made on the parent's table are reflected on the child table?
- A. Entity integrity
  - B. Referential integrity
  - C. Validity integrity
  - D. Primary key
18. When computers are classified as digital or analog it means that they are being classified basing on.....
- A. Physical size
  - B. Specialty
  - C. Process
  - D. Processor power
19. In the mechanical era computers used ..... for their internal operations.
- A. Integrated circuits
  - B. Diodes
  - C. Vacuum tubes
  - D. Gears
20. Which one of the following utilities would one use to prepare a storage media for data storage?
- A. Formatting
  - B. Debugging
  - C. Anti-virus
  - D. Backup

## SECTION B

*Attempt all questions in this section*

21. (a) (i) state **one** difference between a micro-computer and a mini-computer. (02 marks)

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(ii) List **two** characteristics of personal computers. (02 marks)

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(b) Give **two** examples of Hybrid Computers (02 marks)

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(c) State **four** challenges facing computer related jobs in Uganda (04 marks)

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22. (a) State **three** classifications of computer hardware (03 marks)

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(b) Give **one** difference between solid state and optical storage media (02 marks)

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(c) State **two** circumstances that can lead to re-installation of the operating system. (02 marks)

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(d) Give **three** situations that can necessitate one to warm boot a computer. *(03 marks)*

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23. (a) Name **two** situations where electronic spreadsheet application software can be used in a shop. *(02 marks)*

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(b) Give **two** situations that can necessitate one to use equal signs in an electronic spreadsheet cell. *(02 marks)*

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(c) Give **two** tools used for ensuring data integrity in electronic databases applications. *(02 marks)*

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(d) Explain the following electronic database concepts.

(i) **Field properties** *(02 marks)*

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(ii) **Data types** *(02 marks)*

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24. (a) With the help of an example briefly explain the concept of **noise** in electronic data transmission. *(02 marks)*

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(b) Briefly describe the meaning of the following terms as used in electronic data communication

(i) **Wi-Fi** (02 marks)

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(ii) **Bluetooth technology** (02 marks)

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(c ) State *two* features of an electronic web page (02 marks)

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(d ) Explain the following tags as used in web designing.

(i ) The **<title>** tag (01 mark)

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( ii ) The **<body>** tag (01 mark)

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**25.** (a) (i) Briefly describe the concept of **document referencing** as applied in electronic word processors. (02 marks)

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(ii) Give *two* examples of document referencing features found in electronic word processors. (02 marks)

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(b) Name *two* electronic presentation features used to navigate slides during a presentation (02 marks)

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(c) Give **two** publications that can be created using DTP software **(02 marks)**

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(d) State **two** end product documents of a mail merge. **(02 marks)**

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**26.** (a) With the help of an *example* define computer utility software. **(02 marks)**

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(b) State **two** characteristics of computer software. **(02 marks)**

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(b) Give any **two** forms of interfaces that can be provided by an operating system to the computer user. **(02 marks)**

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(c) Name any four system requirements considered before installing windows operating system on a computer. **(04 marks)**

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## SECTION C

(Attempt *only one* Question from this section)

27. (a) Assuming that you have been provided with the following tools; anti-virus utility tools kit, five CCTV cameras, cable seals, Alarm alert devices, device engraving tool, burglar proof set, ten automatic security lights, G7 model Firewalls kit, and a security guard. Demonstrate how you would use the above mentioned tools to enhance computer systems security. (09 marks)

(b) State *five* challenges facing computer software in your school. (05 marks)

(c) Using examples, describe any *six* advanced technologies which show the growth of information technology in your country. (06 marks)

28. (a) As a computer student who has been employed to work in a computer laboratory, give a list of factors you would consider before installing a new program on a computer. (06 marks)

(b). Give any five possible computer malfunctions which can be solved by a computer reboot. (10 marks)

(c) Sketch a well labeled diagram of a simple office network showing the most important devices involved in networking. Name the devices and explain how the drawn illustration works. (09 marks)

29. You are provided with the following computer components:

- Computer set,
- Printer cartridge,
- Printing papers,
- USB Cable,
- Power socket,
- 64 bit plug and play USB- supported printer.

(a). Describe how the above components are connected to have a finally working printer. (07 marks)

(b). Explain how you can correct paper jam in the printing process. (04 marks)

(C). Draw a **sketch** of a QWERTY key board and include the following keys

- Enter
- Tab
- Caps lock
- All functional keys
- Space bar

(09 marks)

**END**

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**KAKURU BENARD**

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