

Candidate's name: .....

Signature:.....

Random No.						Personal No.		

(Do not write your School/Centre Name or Number anywhere on this booklet.)

840/1  
COMPUTER STUDIES  
Paper 1  
Oct./Nov. 2023  
2½ hours



UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Certificate of Education

COMPUTER STUDIES

Paper 1

2 hours 30 minutes

### INSTRUCTIONS TO CANDIDATES:

Write your name, signature, random and personal numbers 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** equally weighted practical -theory questions. Answer only **one** question. Answers to Section **C** must be written in the answer booklet(s) provided.

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

### For Examiners' Use Only

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

## SECTION A (20 MARKS)

*Answer all the questions in this section.*

1. The component of a computer that executes all instructions is
- A. USB.
  - B. CPU.
  - C. UPS.
  - D. ROM.
- ☐
2. An antivirus is an example of
- A. Application programs.
  - B. Operating Systems.
  - C. Programming languages.
  - D. Utility programs.
- ☐
3. The following measures can be used to minimise loss of data in a computer:
- (i) Setting up passwords.
  - (ii) Encrypting data.
  - (iii) Air conditioning.
  - (iv) Events logging.
- A. (iii) and (iv).
  - B. (ii) and (iv).
  - C. (i) and (ii).
  - D. (i) and (iii).
- ☐
4. A computer skilled person who uses specialised software to store and organise information is known as a
- A. database administrator.
  - B. computer programmer.
  - C. network administrator.
  - D. computer analyst.
- ☐
5. The type of installation that overwrites all the content on the hard disk is called
- A. upgrade installation.
  - B. multiple boot installation.
  - C. clean installation.
  - D. silent installation.
- ☐

6. Identify a set of components in a system unit.

- (i) Mother board.
- (ii) Power supply unit.
- (iii) Un interruptible power supply.
- (iv) Video display unit.

- A. (i) and (ii).
- B. (ii) and (iii).
- C. (i) and (iv) .
- D. (iii) and (iv).

☐

7. The following are functions of a website **except**

- A. sharing information.
- B. enhancing communication.
- C. skill building.
- D. making presentations.

☐

8. The basic unit of measuring the speed of a computer processor is

- A. Watt.
- B. Hertz.
- C. Ampere.
- D. Byte.

☐

9. Select the advantages of ring topology from the list below.

- (i) It does not require a server to manage connectivity between computers.
- (ii) Every device on the network has an equal opportunity to transfer data.
- (iii) It is easy to detect and remove faulty parts.
- (iv) It is easy to add or delete nodes by physical layout.

- A. (i) and (ii).
- B. (ii) and (iii).
- C. (iii) and (iv).
- D. (ii) and (iv).

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10. The feature that determines how a slide is removed from the screen and another is presented is known as

- A. animation.
- B. rotation.
- C. transition.
- D. slide show.

☐

11. The standard setting employed by the computer before a user specifies an alternative is termed as a .... value.

- A. macro
- B. default
- C. unit
- D. system

☐

12. Which of the following HTML code will emphasise the phrase “easy communication”?

- A. <h1> easy communication<h1>
- B. </h1> easy communication</h1>
- C. <em> easy communication<em>
- D. <em> easy communication</em>

☐

13. The correct order of representing a formula in a cell is

- A. argument, function name and equal sign.
- B. list of cell address, equal sign and function name.
- C. list of cell address, function name and equal sign.
- D. equal sign, function name and list of cell address.

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14. The set of operations that the computer performs after being powered on is referred to as

- A. boot sequence.
- B. boot record.
- C. cold boot.
- D. warm boot.

☐

15. Choose a set with only data types as used in databases.

- (i) Text.
- (ii) Field.
- (iii) Number.
- (iv) Record.
- (v) Yes/No.

- A. (i), (ii), (iii).
- B. (i), (iii), (v).
- C. (i), (ii), (iv).
- D. (ii), (iii), (v).

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16. The activity of trading using internet is called

- A. teleconferencing.
- B. telecommuting.
- C. e-commerce.
- D. e-banking.

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17. In application programmes, the title bar shows the

- A. file name and program.
- B. menus and icons.
- C. computer minimised buttons of programs.
- D. number of pages of the document.

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18. The process of studying business goals and procedure in order to develop tailor-made software is referred to as

- A. programming.
- B. system analysis.
- C. trouble shooting.
- D. computer diagnosis.

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19. The following technologies were developed in different computer generations:

- (i) Transistors.
- (ii) Integrated circuits.
- (iii) Microprocessors.
- (iv) Vacuum tubes.

Select the order of development from the first to the fourth generation.

- A. (i), (ii), (iii) and (iv).
- B. (ii), (i), (iii) and (iv).
- C. (iv), (i), (ii) and (iii).
- D. (iii), (ii), (iv) and (i).

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20. The following are features of a C - programming language **except**;

- A. it has main( ) as one of its functions.
- B. it is case sensitive.
- C. each statement ends with a semi-colon.
- D. it has the [ and ] as the opening and closing symbols.

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## SECTION B (60 MARKS)

*Answer all the questions in this section.*

*All answers must be written in the spaces provided.*

21. (a) Give **one** example of analog computers. (01 mark)

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- (b) State **one** function of each of the following devices: (04 marks)

- (i) Uninterruptible Power Supply (UPS).

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- (ii) Blower.

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- (c) What is meant by the term **firewall**? (02 marks)

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- (d) Give **three** symptoms of a computer infected with a virus. (03 marks)

- (i) .....

- (ii) .....

- (iii) .....

22. (a) Name the **four** classifications of computer hardware. (04 marks)

- (i) .....

- (ii) .....

- (iii) .....

- (iv) .....



(b) Suggest **three** instances in which you might need to re-install an operating system on a computer. (03 marks)

(i) .....

(ii) .....

(iii) .....

(c) Outline **three** steps of warm booting a computer. (03 marks)

(i) .....

(ii) .....

(iii) .....

23. (a) Explain the following terms:

(i) Spreadsheet ..... (02 marks)

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(ii) Worksheet ..... (02 marks)

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(b) Outline any **two** uses of spreadsheets in computing. (02 marks)

(i) .....

(ii) .....

- (c) (i) Distinguish between a **database** and a **database management system**. (02 marks)

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- (ii) Name any **two** database objects. (02 marks)

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24. (a) Give **one** use of each of the networking devices below: (05 marks)

- (i) Network Interface Card (NIC).

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- (ii) Repeater.

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- (iii) Modem.

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- (iv) Switch.

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- (v) Router.

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(b) Define the term **webpage**. (02 marks)

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(c) State **three** benefits that a school having a website would enjoy. (03 marks)

(i) .....

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(ii) .....

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(iii) .....

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25. (a) Give **two** examples of a Word processing program. (02 marks)

(i) .....

(ii) .....

(b) Identify any **two** features of a Word processor. (02 marks)

(i) .....

(ii) .....

(c) Outline **two** uses of presentation software. (02 marks)

(i) .....

(ii) .....

(d) Explain the following features of a presentation software:

(i) Notes view. (02 marks)

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(ii) Animations.

(02 marks)

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26. (a) Name **two** end-user application programs available on the market.

(02 marks)

(i) .....

(ii) .....

(b) What is a **software suite**?

(01 mark)

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(c) State **two** advantages of software suites.

(02 marks)

(i) .....

.....

(ii) .....

.....

(d) List any **three** examples of high level programming languages.

(03 marks)

(i) .....

(ii) .....

(iii) .....

(e) Describe the function of a compiler in programming.

(02 marks)

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## SECTION C (20 MARKS)

*Answer only **one** question from this section.*

*Answers to the question must be written in the answer booklet(s) provided.*

27. (a) Explain **five** ways computers have been beneficial to organisations. (10 marks)
- (b) Describe **five** proper sitting postures that should be observed when using a computer for one's health and safety. (10 marks)
28. Internet is an important component in the daily lives of society. Describe **five** advantages of using internet and **five** cases where internet is abused in Uganda today. (20 marks)
29. (a) Describe how you can attach the following devices on a computer system unit for use:
- (i) Printer.
  - (ii) Data projector.
  - (iii) Modem.
  - (iv) Ethernet cable.
  - (v) Wireless mouse.
  - (vi) Monitor. (12 marks)
- (b) The headteacher has requested you to capture the images of the school buildings so as to send them by e-mail to a donor. Describe the procedure for sending the images. (08 marks)