

Candidate's Name:.....

Personal NoSignature.....

840/1

COMPUTER STUDIES

Paper 1

July/August 2023

2½ hours



PROVINCIAL - NAMIREMBE DIOCESE

COUHEIA SECONDARY

MOCK EXAMINATIONS 2023



UGANDA CERTIFICATE OF EDUCATION

COMPUTER STUDIES

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Write your signature, Random number, Name and subject code in the spaces provided 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. Totaling to 20 marks.*

*Section **B** contains **six compulsory** structured questions. Each question takes 10 marks totaling to 60 marks. Answers to section **B** must be written in the spaces provided in the question paper.*

*Section **C** contains **three** essay type questions. Answer only **one** question that takes 20 marks.*

*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	Section C	TOTAL	Grade

1. The following are examples of mechanical computers except
- A. Pascal's arithmetic machine
 - B. Leibnitz stepped Reckoner
 - C. Babbage's analytical engine ☐
 - D. Slide rule
2. The asterisk character (*) in database is called a (n)
- A. Extension
 - B. Wildcard
 - C. Filename ☐
 - D. Substitute
3. In document production a font is.....
- A. data of the same field
 - B. characters of the same face and shape
 - C. data of the same record
 - D. characters in the same document and file ☐
4. The error message that will appear in a cell when the formula used contains a function which is not recognized in spreadsheet is.....
- A. #####
 - B. #VALUE!
 - C. #NAME?
 - D. #REF! ☐
5. The process of checking whether essential computer peripherals are attached and operational during booting process is called.....
- A. configuration.
 - B. CMOS.
 - C. POST.
 - D. defragmentation. ☐
6. Computer maintenance, upgrade and configuration utilities are accessed through.....
- A. control panel
 - B. network manager
 - C. system registry ☐
 - D. my computer
7. Systems Software are developed using.....
- A. Antivirus tools.
 - B. Operating systems.
 - C. Programming languages.
 - D. Word processing. ☐

8. Identify the correct rule for HTML tags from the following.....

- A. Do not use the < and > symbols.
- B. Symbols and tag text should be spaced.
- C. There should always be an opening and closing tag.
- D. All tags must start with equal signs (=).

☐

9. A row in a database table that contains information about a given person, event, product or asset is a.....

- A. field.
- B. record.
- C. key.
- D. mask.

☐

10. How many bits are found in the word CAT?

- A. 3
- B. 8
- C. 12
- D. 24

☐

11. What does a slide master do?

- A. It controls sound and transition
- B. It controls animation
- C. It controls graphics and movies
- D. It controls certain text characteristics and background

☐

12. Which one of the following software displays slides as an output?

- A. Presentation
- B. Word processing
- C. Spreadsheets
- D. Internet explorer

☐

13. John Napier invented calculating rods called

- A. Calculators
- B. Napier's bones
- C. Arithmetic machine
- D. Napier's rods

☐

14. A Uniform Resource Locator is

- A. A software application for retrieving, presenting and traversing information on the World Wide Web
- B. A computer program that retrieves documents or files or data from a database or from a computer network.
- C. The address of a web page on the World Wide Web
- D. Program that connects computers into a LAN (Local Area Network) or large office networks.

☐

15. The process of setting up hardware and/or software is referred to as.....

- E. Trouble shooting
- F. Installation
- G. Configuration
- H. Booting

☐

16. A makes a computer program to frequently fail to run a given instruction.

- A. set up
- B. code
- C. virus
- D. bug

☐

17. Which technology uses a physical characteristic to establish identity?

- A. Biometric.
- B. Surveillance.
- C. Smart Card.
- D. CHAP Authenticator.

☐

18. Which of the following HTML tag can change the word “Computer Studies” to Bold?

- A. Computer Studies
- B. <bold> Computer Studies</bold>
- C. Computer Studies
- D. </bold>Computer Studies<bold>

☐

19. Your help desk has informed you that they received an urgent call from the vice president last night requesting his Logon ID and password. What type of cyber-attack is this?

- A. Spoofing
- B. Replay attack
- C. Social Engineering
- D. Trojan Horse

☐

20. The.....is communication device that enables a computer to connect to a network device?

- A. Disk Drive
- B. Hyperlink
- C. Network software
- D. Network card

☐

SECTION B (60 MARKS)

Answer all questions in this section

21. (a) What is meant by Computer Evolution? **(02 marks)**

.....

.....

(b). Suggest one main innovation and one characteristic which describes features of:

i) Fourth Generation Computers.

Innovation **(01 mark)**

.....

.....

Characteristic. **(01 mark)**

.....

.....

ii) Fifth Generation Computers.

Innovation **(01 mark)**

.....

.....

Characteristic. **(01 mark)**

.....

.....

(c) (i) Differentiate between analog and digital computers. **(02marks)**

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

(ii) Give two reasons why a telecommunication company would opt for mainframe computers. **(02 marks)**

i.

.....

ii.

.....

22. (a) Give four stages involved in the booting process of a computer. **(04 marks)**

.....

.....

.....

.....

.....

(b) Explain why a computer user is advised to continuously save their work from RAM to secondary memory . **(02 marks)**

.....

.....

(c) Which technology do the following storage media components use to store information to their memory? **(02 marks)**

i. ATM cards:.....

ii. Memory cards:.....

(d) Martin is starting a videography company, suggest two imaging input devices he would need to capture a wedding Ceremony. **(02 marks)**

i.

ii.

23. (a) Name three popular spreadsheet software applications. **(03 marks)**

i.

ii.

iii.

b) Explain why a user would prefer electronic spreadsheets to traditional ledger books.

(02 marks)

.....

.....

c) Give the main function of a primary key in a database table? **(01 mark)**

.....

.....

d) Explain the concept of a relational database. **(02 marks)**

.....

.....

e) What is the difference between a database management system (DBMS) and a database? **(02 marks)**

.....

.....

24. (a) write brief notes on the following computer communication and network devices.

(ii) Switch: **(02 marks)**

.....
.....

(iii) Router: (02 marks)

.....
.....

b) What is the function of DNS (Domain Name System) in networking? (01mark)

.....
.....

(c) What are the key principles of good web site? (02 marks)

i.

.....

ii.

.....

(d) Write three ways how schools are benefiting from their websites. (03 marks)

i.

.....

ii.

.....

iii.

.....

25. (a) Give the importance of the following features in word processing

(i) Word wrap (01 mark)

.....

.....

(ii) Text wrap (01 marks)

.....

.....

(iii) Foot note (01 mark)

.....

.....

(b) Identify word processing features a user would apply for tasks bellow.

- i. Transferring a text from one place in a document to another without leaving an original copy.....(01 mark)
- ii. Making a copy of a text and transferring it to another place in a document.....(01 mark)

(c) Differentiate between system software and application software. (02 marks)

.....

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.....

.....

(e) Write the utility programs that perform the following tasks. (03 marks)

- i.prevents ghosting.
- ii.combines scattered files and data on a storage media.
- iii.duplicates files that are stored and used in case of accidental damage of the original files.

26. (a) Give three factors you would consider before choosing an internet service provider. (03 marks)

- i.
- ii.
- iii.

(b) School X forwarded a complaint about their slow internet connections to their ISP. Explain the any 3 factors that could have led to this problem. **(03 marks)**

- i.
- ii.
- iii.

(c) Give two acceptable behaviors one should exhibit when using internet.

(02 marks)

- i.
- ii.

(d) Briefly describe the following trends in ICT.

i. Internet of things (IoT). **(01 mark)**

.....
.....

ii. Internet of Behaviors(IoB). **(01 mark)**

.....
.....

SECTION C (20 MARKS)

Attempt any one question

27. What are the advantages and disadvantages of Internet in business today?

(20 marks)

28. (a) Explain **five** ICT professions in Uganda.

(10 marks)

(b) Due to the increasing technology around the globe, various computer crimes have been committed by various categories of people. Explain some of these crimes.

(10 marks)

29. (a) What is a computer virus?

(02 marks)

(b) Explain how computer viruses are spread.

(18 marks)

END