

Candidate's Name.....

Signature.....

<b>Personal Number</b>		

# **SAM IGA MEMORIAL COLLEGE-MAGANJO**

**MOCK EXAMINATIONS 2020**

**Uganda Certificate of Education**

**COMPUTER STUDIES**

**Paper 1**

2 hours 30 minutes

## **INSTRUCTIONS TO CANDIDATES:**

*Write your name, signature and 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 equally weighted practically-theory questions. Answer only **one** question. Answers to Section **C** must be written on the answer sheet(s) provided.*

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

### **For Examiners' Use only**

<b>MCQ</b>	<b>Q21</b>	<b>Q22</b>	<b>Q23</b>	<b>Q24</b>	<b>Q25</b>	<b>Q26</b>	<b>Q27</b>	<b>Q28</b>	<b>Q29</b>	<b>TOTAL</b>

1.

**SECTION A (20 MARKS)**

*Answer all questions in this section*

1. The first computing device used to perform arithmetic calculations was.....?  
A. Weaving loom  
B. Abacus  
C. Slide rule  
D. Calculator
2. The red-wave underline that appears to words when typing a document using a word processor means?  
A. Wrong grammar  
B. Lowercase  
C. Poor handwriting  
D. Wrong spelling
3. The most appropriate way of protecting computers from theft is?  
A. Installing anti-virus software  
B. Use of strong passwords  
C. Burglar proofing the room  
D. Installing surge protectors.
4. The best application software that can be used to play videos and audios songs on the Windows desktop computer.  
A. Media Players  
B. Web browsers  
C. Graphics software  
D. Email Software
5. Which one of the following is not an example of a wireless transmission media?  
A. Infrared  
B. Radio waves  
C. Microwaves  
D. Wireless Fidelity

6. ....is the process of wiping the hard disk clean during installation of operating system and it involves deleting all files on the drive.

- A. Formatting
- B. Defragmentation
- C. Disk cleaning
- D. Debugging

7. The main permanent storage media used for keeping operating system and all user data for future use is called?

- A. Random Access Memory
- B. Hard Disk Drive
- C. Read Only Memory
- D. Motherboard

8. Calculate the number of bits in 16 bytes

- A. 128
- B. 8
- C. 16
- D. 32

9. The field that can be used to uniquely identify each record in the table in relation with flat file databases is called.....?

- A. Field name
- B. Foreign key
- C. Primary key
- D. Data type

10. Computers that measure continuous variables are categorized as

- A. Integrated
- B. Analog
- C. Digital
- D. Hybrid

11. The animation-like effects that occur in slide show view when you move from one slide to another during an on screen presentation is called.

- A. Slide transition
- B. Action buttons
- C. Animations
- D. Speaker notes

12. Which of the following is not a category of system software?  
A. Utility software  
B. Bespoke software  
C. Programming languages  
D. Operating system
13. The branch of science that deals with development of machines that emulate human-like qualities us called?  
A. Cloud computing  
B. Artificial Intelligence  
C. Digital forensics  
D. Advanced Robotics
14. The process of switching on a computer that has been completely powered off is called.....?  
A. Soft booting  
B. Warm booting  
C. Restarting  
D. Cold booting
15. The networking device responsible for converting digital signals to analog signals and vice versa in networking is called.....?  
A. Router  
B. Multiplexer  
C. Repeater  
D. Modem
16. Identify the correct rule for HTML tags from the following?  
A. Do not use the < and > symbols  
B. All tags should be written in uppercase  
C. There should be an opening an a closing tag  
D. All tags should start with an equal sign (=)
17. Which part of the Central Processing Unit is responsible for managing and directing all operations in the CPU?  
A. Control Unit  
B. Registers  
C. ALU  
D. Cache memory

18. Which of the following combination of keys on the keyboard will display the Run dialog box on the windows desktop?

- A. Ctrl+Alt+Del
- B. Windows button + R
- C. Shift + R
- D. Alt+F4

19. The only programming language understood by computers is called

- A. FORTRAN
- B. C++
- C. COBOL
- D. Machine Code

20. A.....is a predefined formula that performs calculations using specific values in a particular order.

- A. Columns
- B. Rows
- C. Function
- D. Formula

**SECTION B (60 MARKS)**

*Answer all questions in this section*

*Answers must be written in the spaces provided*

21. (a) Name any **two** components of a computer system. (02 marks)

.....  
.....

(b) State **three** characteristics of third generation computers. (03 marks)

(i) .....

.....

(ii) .....

.....

(iii) .....

.....

(c) (i) Define term hardware theft. (01 mark)

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

(ii) Give any **two** symptoms of a virus infected computer. (02 marks)

.....  
.....

(iii) State ant **two** examples of anti-virus software applications.

(02 marks)

.....  
.....

**22.** (a) (i) Explain the function of an output device on a computer. (02 marks)

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

(ii) Give one example of each of the following categories of storage media. (03 marks)

(a) Magnetic storage media.....

(b) Optical storage media.....

(c) Solid-state storage media.....

(b) (i) Define the term disk partitioning. (02 marks)

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

(ii) Explain **three** reasons why one would restart his/her personal computer. (03 marks)

- (i) .....
- .....
- (ii) .....
- .....
- (iii) .....
- .....

**23.** (a) (i) List **two** examples of spread sheet software? (02 marks)

.....  
.....

(ii) Describe the procedures you would follow to delete a column a worksheet. (03 marks)

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

(b) (i) Write **DBMS** in full (01 mark)

.....

(ii) Identify the data types for the following fields (04 marks)

Field name	Data type
SURNAME	
SCHOOL FEES	
DATE OF BIRTH	
COMMENTS	

24. (a) (i) State any **two** examples of physical transmission media. (02 marks)

.....  
.....

(ii) State any **two** advantages of wireless transmission media (02 marks)

(a) .....

.....

(b) .....

.....

(b) Write the following abbreviations in full. (02 marks)

(i) HTML.....

(ii) URL.....

(c) Write the correct **html tag** for the following statements. (04 marks)

(i) Making the word **shareability** bold.

.....

(ii) Applying a marquee to the word **mukono**

.....

(iii) Centre aligning the word **computer**

.....

(iv) Underlining the word **section**

.....

25. (a) Distinguish between a footnote and endnote? (02 marks)

.....

.....

.....

.....

(b) List **three** examples of formatting features of word processor. (03 marks)

(i) .....

(ii) .....

(iii) .....

(c) Explain the function of the following features of a presentation software.

(03 marks)

(i) Slide master

.....  
.....

(ii) Slide Sorter

.....  
.....

(iii) Slide Show

.....  
.....

(d) State any **two** features of a good presentation.

(02 marks)

.....  
.....

**26.** (a) Outline any **four** functions of operating system software.

(04 marks)

(i) .....

.....

(ii) .....

.....

(iii) .....

.....

(iv) .....

.....

(b) Describe the meaning of the following terms as used in software.

*(03 marks)*

(i) Shareware

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

(ii) Freeware

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

(iii) Software suite.

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

(c) State **three** examples of commonly used language translators in programming.

(i) .....

(ii) .....

(iii) .....

**SECTION C (20 MARKS)**

*Answer only **one** question in this section*

*Answers to the question must be written in the answer booklet provided*

- 27.** Explain **five** negative implications of computers to the society. (20 marks)
- 28.** Explain the function of the following devices in a computer laboratory
- (a) Uninterruptible Power Supply. (20 marks)
  - (b) Power supply
  - (c) Air conditioner
  - (d) Surge protectors.
- 29.** (a) Define the term transmission direction (04 marks)
- (b) Explain any **four** categories of transmission direction. (16 marks)

***END***