NAME: --Candidate No: --------------Sign: -------

840/1
COMPUTER STUDIES
Paper 1
June/July 2019

2½ hours

MOCK EXAMINATIONS 2019
Uganda Certificate of Education
COMPUTER STUDIES

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

(Read all instructions in this paper carefully)

Write your name, stream and Personal No. and signature in the spaces above.

*This paper is made up of **three** sections **A, B** and **C.***

*Section **A** is made up of **20 compulsory** multiple-choice questions (objectives).*
Select the correct objective by encircling it. e.g., Ⓐ or Ⓒ

*Section **B** contains **six compulsory** structured questions.*

*Answers to Section **B mus**t be written in the spaces provided in the question paper.*

Section C contains three essay questions. Answers to section C must be written in the answer booklets provided.

For Examiner's Use Only

MCQs	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Total

Section A (20 marks)

Compulsory Questions

1. _____ was the first electronic digital computer.
    A) ABC
    B) ENIAC
    C) UNIVAC
    D) IBM 700

2. The sequence of event that includes: Fetch – Decode – Execute and Store is referred to as:
    A) CPU Cycle
    B) Information Processing Cycle
    C) Data Processing Cycle
    D) Execution Cycle

3. What component must be compatible with every other component of the computer?

    A) System Unit
    B) Monitor
    C) Motherboard
    D) Keyboard

4. …………………was the first general purpose electronic digital computer.
    A) ABC
    B) ENIAC
    C) UNIVAC
    D) EDIVAC

5. Keyboard was introduced in …………generation of computers.
    A) Second

B) Third
C) Fourth
D) Fifth

6. Which of the following traits affecting IT support is also governed by Law?
A) Punctuality
B) Accountability
C) Privacy
D) Respect

7. What is the first step when installing Windows onto a system that does not already have a functioning operating system?
A) Formatting
B) Partitioning
C) Redirecting
D) Installing the OS

8. To fix bad power supply in a desk top PC, you should ……………………
A) Remove and replace the entire power Supply.
B) Disassemble the power supply and replace the coils away.
C) Disassemble the power supply and replace the capacitors.
D) Disassemble the power supply and replace the resistors.

9. What would be the best thing to use to clean a laptop displays?
A) A clean smooth damp cloth
B) Glass cleaner
C) Abrasive cleaning powder
D) LCD Cleaner

10. The Screensaver can be changed in the ………………..dialog box:
A) Displays properties
B) Taskbar

C) Menu Bar

D) Shortcut menu

11. Which of the following programs is shareware software?

A) Mozilla Firefox Browser.

B) Google chrome

C) Internet Explorer

D) Download Manager program

12. ---------------------------is one of the basic Editing features of a word processing application.

A) Close

B) Find

C) Print

D) Underline

13. When you want all your slides to contain the same fonts and images (such as logos) in PowerPoint, you can make those changes in one place the………………………

A) Slide Master

B) Notes Master

C) Slide Sorter

D) Handout Master

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

A) Biometric.

B) Surveillance.

C) Smart Card.

D) CHAP Authenticator.

15. What is the use of spreadsheet application?

A) Making presentation to big audience.

B) What if analysis.

C) Designing a website.
D) Editing photographs.

16. An error in a program that makes it do something other than what the programmer intended is called ……

A) Syntax Error
B) Logic Error
C) Compiler Error
D) Semantic Error

17. Which of the following HTML tag can change "Computer Studies" to Bold?

A) Computer Studies
B) <bold> Computer Studies</bold>
C) Computer Studies<strong>
D) </bold>Computer Studies<bold>

18. Which of the following is a characteristic of a relational database?

A) Operates on a single table.
B) Operates on multiple tables
C) Has no foreign key
D) Uses one-to-one relationship only

19. What is the proper way to dispose off a broken CRT Monitor?

A) Take it to a computer recycling center
B) Discharge the monitor with a high-volt probe and throw it away.
C) Throw it away.
D) Document the specifications and throw it away.

20. 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 attack is this?
A) Spoofing
B) Replay attack

C) Social Engineering

D) Trojan Horse

Section B (60 marks)

Answer all questions from this section.

21. (a) Suggest any **four** reasons why vacuum tubes used in first generation of computers were replaced by transistors in the second generation of computers.   *(08 marks)*

   i.   ……………………………………………………………………………………

   ……………………………………………………………………………………

   ii.   ……………………………………………………………………………………

   …………………………………………………………………………………..

   iii. ……………………………………………………………………………………

   ……………………………………………………………………………………

   iv. ……………………………………………………………………………………

   ……………………………………………………………………………………

(b) Explain why Charles Babbage is known as the father of modern computers.

……………………………………………………………………………………………

……………………………………………………………………………… *(02 marks)*

22. (a) Explain any **three** main areas in Entertainment where computer systems are used.

   i.   ……………………………………………………………………………………

   …………………………………………………………………….…*(02 marks)*

ii. ……………………………………………………………………………………………
……………………………………………………………….…(*02 marks*)

iii. ……………………………………………………………………………………………
………………………………………………………………..(*02 marks*)

(b)Suggest any **four** advantages of using a Smartphone over a laptop. (*04 marks*)

i. ……………………………………………………………………………………………
……………………………………………………………………………………………

ii. ……………………………………………………………………………………………
……………………………………………………………………………………………

iii. ……………………………………………………………………………………………
………………………………………………………………………………………..

iv. ……………………………………………………………………………………………
……………………………………………………………………………………………
………………………………………………………………………………………..

23. Study the Figures below and use it to answer the following questions:

A

B

C

D

    i.   Identify the devices labeled.   *(04 marks)*

        A.   …………………………………………………………………………

        B.   …………………………………………………………………………

        C.   …………………………………………….……………..……………

        D.   ………………………………………………………………………..

    ii.   State **one** function of device labeled.

    B…………………………………………………………………………………

    …………………………………………………………………………*(02 marks)*

D………………………………………………………………………………………
………………………………………………………………………(*02 marks*)

iii.   Suggest **one** similarity between devices **B** and **C.**

……………………………………………………………………………………
………………………………………………………………..(*02 marks*)

24. People use the Internet for a variety of reasons. Suggest any **five** reasons you know.

a)   ……………………………………………………………………………………
…………………………………………………….……………………(*02 marks*)

b)   ……………………………………………………………………………………
……………………………………………………… …………………(*02 marks*)

c)   ……………………………………………………………………………………
……………………………………………………...................(*02 marks*)

d)   ……………………………………………………………………………………
………………………………………………………………………(*02 marks*)

e)   ………………………………………………………………………………………
…………………………………………………………………….....(*02 marks*)

25. (a) Explain the following application software. Give one example in each case:

i.   Packaged Software   (*02 marks*)

……………………………………………………………………………………………

……………………………………………………………………………………………

Example*: ……………………………………………………………………………..

ii. Custom Software   *(02 marks)*

……………………………………………………………………………………………

……………………………………………………………………………………………

Example…………………………………………………………………………………

iii. Shareware Software   *(02 marks)*

……………………………………………………………………………………………

……………………………………………………………………………………………

Example…………………………………………………………………………………

(b) State **one** difference between Freeware and Public domain Software.   *(02 marks)*

…………………………………………………………………………………………………

…………………………………………………………………………………………………

c) Outline **one** function of a System Software……………………………………(02 marks)

…………………………………………………………………………………………………

……………………………………………………………………………………………..

26. The table " **Staff** " below gives the information about database of some staff members of

"**Bomy Group of Companies Ltd**".

(a) What is the primary key of this table? ……………………………….. *(01 mark)*

Staff ID	Name	Gender	Nationality	Date of birth	Salary
C001	Heinz Adam	Male	Ugandan	23/11/1988	57,000
C002	Opio James	Male	Kenyan	03/07/1979	70,000
C003	Agero Jalia	Female	Tanzanian	12/02/1990	32,000
C004	Sarah Fayi	Female	Ugandan	28/12/1975	25,000
C005	Gamal Jane	Female	Kenyan	18/11/1991	20,000

(b) Suggest any **three** reasons to support your answer in (a) above   *(06 marks)*

   i.   ………………………………………………………………………………

   ………………………………………………………………………………………

   ii.   ………………………………………………………………………………

   ………………………………………………………………………………………

   iii. ………………………………………………………………………………

   ………………………………………………………………………………………

(c) State the data types of the following fields:

   i.   Staff ID…………………………………………………………………...*(01 mark)*

   ii.   Salary…………………………………………………………………….*(01 mark)*

(d) How many records are in this table?……………………………………..*(01 mark)*

Section C (20 marks)
*Answer any **one** question from this section*

27. Your school plans to design a new computer laboratory measured by

$$(L \times W \times H)$$

Where **L** is the length, **W** is the width, and **H** is the Height of the room in meters.

a) Write an algorithm that can be used to determine the surface area of the floor of the room. *(05 marks)*
b) Write a pseudo code for the algorithm design in (a) above. *(05 marks)*
c) Design a flow chart for determination of the surface area of the floor of the room. *(05 marks)*
d) Outline any five high level programming Languages that can be use to determine the surface area of any Computer Laboratory *(05 marks)*

28. (a) Discuss any four physical security measures one can use to protect against computer crime today. *(08 marks)*

(b). Your contacts are receiving spam from your email account.
  i.   What is the most probable cause? (06 marks)
  ii. Suggest any two solutions to this problem. (06 marks)

29. (a) A computer running windows operating system restarts without warning automatically. Identify and explain any four problems that might have caused a computer to reboot often. *(12 marks)*

(b) . The computer is running and has a delayed response. Suggest **one** probable cause and any **three** possible solutions. *(08 marks)*

END