NAME……………………………………………………………….INDEX NUMBER……..

SIGNATURE………………………………..

840/1
COMPUTER
STUDIES
Paper 1
Jul/Aug, 2023
2 $^1/_2$ Hours

MATIGO MOCK EXAMINATIONS BOARD
Uganda certificate of education
COMPUTER STUDIES
Paper 1
Theory
2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- *This paper consists of three section, 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 consists of six (6) compulsory structured questions. Answers to this section must be written in the spaces provided in the question paper.*
- *Section C contains three essay equally weighted questions. Answer only ONE question and answers to the question must be written in the answer booklet provided.*
- *Any additional question(s) answered will not be marked.*

FOR EXAMINER'S USE ONLY

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q29	**TOTAL**

Turn Over

SECTION A (20 MARKS)

1. A computer is best described as a/an
   - **A.** electronic device that has monitor
   - **B.** electronic device that processes data
   - **C.** machine that performs routine calculations
   - **D.** machine that is capable of carrying out enormous task

2. Which of the following are constituents of a computer system?
   - **A.** Data and information, Hardware, Software
   - **B.** Softcopy and hardcopy
   - **C.** Software and hard ware
   - **D.** Input and output devices

3. The acronym CPU stand for;
   - **A.** Central programming unit
   - **B.** Central processing unit
   - **C.** Computer processing unit
   - **D.** Computer programming unit

4. Which of the following is a transducer?
   - **A.** Editor
   - **B.** Linux
   - **C.** Compiler
   - **D.** MS Windows

5. The way of manipulating data into information is called;
   - **A.** organizing
   - **B.** transmission
   - **C.** storing
   - **D.** processing

6. .... is a small piece of text stored on a user's computer by a web browser for maintaining the state
   - A. Session
   - B. Applets
   - C. Cookie
   - D. Application

7. Which of the following is responsible for the management and coordination of activities and the sharing of the resources of the computer?
   - **A.** Motherboard
   - **B.** RAM
   - **C.** Operating system
   - **D.** System software

8. In computers, what is the smallest and basic unit of information storage?
   - **A.** Byte
   - **B.** Bit
   - **C.** Kilobyte
   - **D.** Megabyte

9. What type of device is a computer keyboard
   A. Output
   B. Input
   C. Storage
   D. Software

10. In the e-mail address <u>matigoexaminationsboard@gmail.com</u>, "matigo" is the ----------------- name
    A. Client
    B. Domain
    C. Host
    D. User

11. What does HTTP stand for?
    A. Head tail transfer plot
    B. Hypertext transmission process
    C. Hypertext transfer protocol
    D. Hypertext transfer plotter

12. A back up ought to be made for all vital records. This may be done by;
    A. Printing records
    B. Saving the files into RAM
    C. Moving the records to a new directory
    D. Copying the records onto a storage device

13. Aisha needs to urge a few data from the web on designing victory cards for her companions. What kind of program would she need to utilize to induce this data?
    A. Desktop publishing
    B. E-mail address
    C. Web browser
    D. Web authorized software

14. Files that are deleted from desktop are;
    A. Lost completely
    B. Held recycle bin
    C. Held in RAM
    D. Saved in a clipboard

15. ---------------------refers to the number of computers controlled by a central host.
    A. Subordinates
    B. Clients
    C. Micro computers
    D. Standby computers

16. Which of the following is not an input device
    A. Voice recognition device
    B. OCR
    C. Optical scanner
    D. COM (Computer output to microfilm)

17. The device used to carry digital data on analog lines is called………………
   A. Modem
   B. Modulator
   C. Demodulator
   D. Multiplexer

18. Physical or logical arrangement of network is;
   A. Networking
   B. Routing
   C. ISP
   D. Topology

19. …………………….. Translates and executes program at run – time line by line
   A. Compiler
   B. Interpreter
   C. Linker
   D. Loader

20. What is the shortcut key of printing a document for computer having windows?
   A. Shift + PP
   B. Shift + P
   C. Alt + P
   D. Ctrl + P

SECTION B (60 MARKS)
*Answer **all** questions in this section*

21. The following spreadsheet shows the 2 – night bargain break holiday bookings during a certain period.

	A	B	C	D	E	F
	2 – Night Bargain Break Holiday Bookings					
2						
3	Priced at ($)	100($)				
4			Bookings			
5	Hotel	Nov	Dec	Jan	Total Bookings	Income ($)
6						
7	Beach Resort	3	5	1	9	900
8	Hotel Lagrand	7	8	5	20	2,000
9	Hotel Africana	8	9	8	25	2,500
10	Serena Hotel	6	6	3	15	1,500
11	Hotel Acacia	2	5	3	10	1,000
12						
13	Total bookings	26	33	20	79	
14					Total income ($)	7,900
15						

(a) Write down the cell reference for all cell labels. (01 mark)

....

....

(b) Write down the function to be entered in to the system to calculate the bookings for the month of "Dec" (01 mark)

....

....

(c) Describe the procedure that was applied to achieve the appearance of the first heading in the spread sheet. (02 marks)

....

....

(d) State the cells that are needed to create a bar chart showing the total bookings for each of the hotels. (02 marks)

....

....

(e)(i) Describe how data in column A can be sorted in descending order basing Income in column F. (02 marks)

....

....

....

....

(ii) Write down the hotel names in the order that they will appear after the sorting above has been done perfectly. (02 marks)

....

....

....

....

22. With appropriate examples describe the meaning of these computer terms.

    (a)   Buffer memory   (02 marks)

....

....

....

    (b)   Cache memory   (02 marks)

....

....

....

    (c)   Working memory   (02 marks)

....

....

....

    (d)   Read only Memory   (02 marks)

....

....

....

    (e)   Data storage   (02 marks)

....

....

23. **(a)** Give two examples of presentation software   (02 marks)

....

....

    (b) Define the following terms as applied to presentation software. (03 marks)

        (i) A slide

....

....

    (ii) Place holder

....

....

(iii) Action button

....

....

(c) State any two factors considered when creating a good presentation using Microsoft office power point (02 marks)

....

....

....

(d) (i) What is meant by the term multimedia? (01 mark)

....

....

....

(ii) Give the difference between slide and handout mode of printing (02 marks)

....

....

....

24. (a) What is a **printer**? (01 mark)

....

....

(b) State two advantages of laser jet printers over Dot matrix printers. (02 marks)

....

....

....

....

(c) Write any three ways of managing and maintaining laser jet printers (03 marks)

....

....

....

(d) Describe the following in relation to printers.
(i) Ink Cartridge   (01 mark)

....

....

(ii) Tonner.   (01 mark)

....

....

(iii) Spooling.   (01 mark)

....

....

(iv.) Hard copy.   (01 mark)

....

....

25. A hospital has decided to computerize its data management system.
(a) Give three ways this could affect the hospital workers.   (03 marks)

....

....

....

(b) The hospital will be using a database which holds confidential personal
data. State two precautions that the hospital should take to prevent
unauthorized access to the data.   (02 marks)

....

....

....

(c) Describe how the database could be recovered if it became corrupted.
                                                                                                        (02 marks)

....

....

....

(d) Explain the following terms in relation to database management systems.

(3 marks)

(i) Validation rule.

....

(ii) Validation text.

....

(iii) Input mask.

....

26. **(a)** Differentiate between analog and digital computer. (02 marks)

....

....

....

(b) Mention any two examples of analog computers. (02 marks)

....

....

....

(c) List down any three characteristics of super computers. (03 marks)

....

....

....

(d) (i) Distinguish between general purpose and special purpose PCs.

(02 marks)

....

....

....

(ii) What do you understand by the term 5G a myth that is roaming around peoples' minds to day? (01 mark)

....

....

SECTION C (20 MARKS)
Answer only one question from this section

27. (a) What is meant by system drivers in relation to computers and the peripheral equipments that we use almost on a daily basis? (02 marks)

(b) Write down any four system drivers with their functions (08 marks)

(c) Today many operating systems are released by programmers with inbuilt system drivers. Give any five reasons for this act? (05 marks)

(d) What are some of the limitations associated with designing, releasing and installing operating systems with many inbuilt system drivers?

(05 marks)

28. (a) What is meant by systems analysis? (02 marks)

(b) With the help of a diagram describe the steps involved in systems analysis. (10 marks)

(c) Mention the importances and limitations of systems analysis. Give four points for each side. (08 marks)

29. (a) What do you understand by the term network topology? (02 marks)

(b) With illustrations, explain four network topologies. (16 marks)

(c) Write down any two factors that you would consider when choosing a particular topology to be used for your network structure in a given institution. (02 marks)

END