840/1
Computer Studies Theory
Paper 1
July – August, 2023
2 ½ Hours

UMTA

UGANDA MUSLIM TEACHERS ASSOCIATION

UMTA JOINT MOCK EXAMINATIONS – 2023

NAME...

INDEX NO.....................…........SIGNATURE...............................

UGANDA CERTIFICATE OF EDUCATION

Computer Studies

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

(Read all instructions in this paper carefully)

- 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 space provided on the right hand side of each question.
- Section **B** contains six structured questions. Attempt all of them.
- Answers to section **B** must be written in the spaces provided in the question paper.
- Section **C** contains three easy questions .Attempt only one .Answers to section **C** must be written in the answer booklet provided.

For examiner's use only

SECTION A	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

SECTION A

1. VGA is.
   a) Video Graphics Array
   b) Visual Graphics Array
   c) Volatile Graphics Array
   d) Video Graphics Adapter

2. Chief component of first generation computer was
   a) Transistors
   b) Vacuum Tubes and Valves
   c) Integrated Circuits
   d) None of above

3. The ALU of a computer normally contains a number of high speed storage element called
   a) Semiconductor memory
   b) Registers
   c) Hard disks
   d) Magnetic disk

4. In which language is source program written?
   a) English
   b) Symbolic
   c) High level
   d) Temporary

5. Which of the following is used only for data entry and storage, and never for processing?
   a) Mouse
   b) Dumb terminal
   c) Micro computer
   d) Dedicated data entry system

6. An application program that helps the user to change any number and immediately see the result of that change is;

   a. Desktop publishing program

   b. Database

   c. Spreadsheet

   d. All of above

7. Which of the following produces the best quality graphics reproduction?

   a) Laser printer

   b) Ink jet printer

   c) Plotter

   d) Dot matrix printer

8. What is a motion path?

   a) A type of animation entrance effect

   b) A method of advancing slides

   c) A method of moving items on a slide

   d) All of the above

9. What is the short cut key to open the Open dialog box?

   a) F12

   b) Shift F12

   c) Alt + F12

   d) Ctrl + F11

10. A collection of 8 bits is called

   a) Byte

   b) Record

   c) Word

   d) Nibble

11. A source program is the program written in .... language.
   a) English
   b) Symbolic
   c) High level
   d) Object

12. When the same data field is stored more than once in a file, then it leads to
   a) Data redundancy
   b) Data inconsistency
   c) Data dependency
   d) Data independence

13. A distributed network configuration in which all data/information pass through a central computer is a.
   a) Bus network
   b) Star network
   c) Duplex
   d) Multiplex

14. The simultaneous transmission of data to a number of stations is known as
   a) Broad cast
   b) Band width
   c) Aloha
   d) Analog transmission

15. The process of transferring files from a web page on the internet to your computer is called.
   a) Uploading
   b) Forwarding
   c) Transferring
   d) Downloading

16. A web page is located using a _____

    a) Universal Record Linking

    b) Uniform Resource Locator

    c) Universal Record Locator

    d) Uniformly Reachable Links

17. Which would you do first when troubleshooting a faulty monitor?

    a) Check its connections to the computer and power source

    b) Use a meter to check the CRT and internal circuitry for continuity

    c) Power down the monitor, then turn it on again to see if that corrects the problem

    d) Power down the computer, then turn it on again to see if that corrects the problem

18. In a computer spreadsheet, block of cells is called

    a) Range

    b) Column

    c) Workbook

    d) function

19. A person who uses his or her expertise to gain access to other people's computers to get information illegally or do damage is a

    a) Hacker

    b) Analyst

    c) Spammer

    d) Programmer

20. What is the name given to that part of a word processing package that is used to automatically insert names, addresses, and other text into designated locations in a series of letters?

    a) Mail merge

    b) Page layout

    c) Block move

    d) Word wrap

SECTION B

Answer all questions in this section

21. (a) Mention two uses of computers in the area of transport. (2 Marks)

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(b) List and explain any six characteristics of modern computers. (2 Marks)

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(c) Outline any two examples of personal computers. (2 Marks)

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22. (a) With an example define a digital computer. (1 Mark)

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(b) Distinguish between digital and analog computers. (2 Marks)

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(c) What is meant by the term Evolution of computers. (1 Mark)

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(d) As a student of computers studies give any five distinctions between second generation computers and fifth generation computers. (5 Marks)

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23. (a) What is meant by Computer input hardware? (1 Mark)

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(b) Distinguish between optical storage devices and solid-state devices. (2 Marks)

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(c) State four differences between Command line interface and graphical user interface.

(4 Marks)

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(d) Write DOS in relation to computers in full. (1 Mark)

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(e) List any two examples of word processing packages. (2 Marks)

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24. (a) What is the difference between customized software and off the shelf software?

(2 Marks)

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(b) You have been appointed the Executive secretary of UMTA and you are sourcing to procure a software package to analysis students' results for UMTA mocks. Mention the type of software package and give any four advantages why you use that package to manipulate the results. (4 Marks)

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(c) List any four circumstances that may necessity you to restart your computer.

(4 Marks)

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) Explain the following terms   (4 Marks)

   (i)   Hyper link

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   (ii)   A webmaster

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   (iii) A blog

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   (iv)   Web browser

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(b) (i) What is a slide show as used in presentation?   (2 Mark)

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   (ii) Explain the following terms as used in a Slide show.   (4 Marks)
        Transitional effect

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        Animation effect

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26. (a) Define the term programming. (01 Mark)

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(b) List any two factors you would consider when designing a good pseudocode.

(02 Marks)

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(c) Write the following in full. (02 Marks)

    (i)   OOP..

    (ii)   HTML..

(d) Define the term computer ethics. (01 Mark)

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(e) Give any **two** career opportunities in information and communication
     technology and explain one function for each. (04 Marks)

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SECTION C

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

27. (a) Distinguish between Email and the internet. (2 Marks)

  (b) State any two factors affecting computer communication on the internet. (2 Marks)

  (c) Mention any four communication devices used to connect two or more computers. (4Marks)

  (d) Describe how you can setup a network of three computers, describing each communication device used in the setup. (12 Marks)

28. (a) Differentiate between **an algorithm** and a **pseudocode** in relation to programming. (2 marks)

  (b) Write a pseudo code to calculate and display the area of a circle. (08 Marks)

  (c) Explain how you would uninstall any application software from the computer? (10 Marks)

29. (a) As a computer studies student, the student of the new secondary.

  school curriculum has requested you to explain the errors below to the S2 class. (10 Marks)

  (i)   Device not ready

  (ii)   Access denied when a user wants to access a particular file

  (iii)   Non-system disk error when the computer system is switched on

  (iv)   Low disk space and computer is slow

  (v)   Our of memory

(10 Marks)

(b) List down the steps of assembling a computer.

END