Name: ....

Index No. .... Signature:.................................

840/1
Computer Studies
Theory
Paper 1
June/July 2023
2½ Hours

ACEITEKA JOINT MOCK EXAMINATIONS 2023

Uganda Certificate of Education

COMPUTER STUDIES

Paper 1

(Theory)

2 hours 30 Minutes

Instructions:

a) *This paper is made up of three Sections; A, B and C respectively.*

b) *Answer **all** questions in Sections A and B.*

c) *In **Section A**, the correct alternative A, B, C, or D must be written against its corresponding question. **Unclear and crossed-out work will NOT be marked.***

d) *Answer **only one** question in Section C out of the 3 equally weighted questions.*

e) *Poor handwriting and untidy work will lead to automatic loss of marks.*

For Official Use Only

MCQ	21	22	23	24	25	26	27	28	29	TOTAL

1

1. A .... is a preliminary working version of a software product for demonstration and evaluation by end users.
   A) Version.
   B) Release.
   C) Prototype.
   D) System life cycle.

2. The ability of a computer to automatically configure peripheral devices is known as ....
   A) supervision
   B) drivers
   C) Registering.
   D) plug and Play

3. In Database, a collection of fields that contain data about a single activity or transaction is referred to as.
   A) File
   B) Primary key
   C) Record
   D) Query

4. HTTP stands for
   A) Hypertext transport protocol
   B) Hypertext transport platform
   C) Hypertext transfer platform
   D) Hypertext transfer protocol

5. When system peripherals stop working suddenly, computer users can be advised to start by.............................
   A) Identifying the cause of the fault.
   B) Buying a new peripheral device.
   C) Changing the version of the peripheral.
   D) Going to another computer.

6. Which one of the following program development stage would be the best stage for starting to develop a program to solve user's needs?
   A) Need identification.
   B) Problem coding.
   C) Program design.
   D) Program testing.

2

7. .... is a standard for transmitting data over a computer communication link
   A) Packet switching
   B) Network
   C) Topology
   D) Protocol.

8. During which step in the process of program development do programmers write the actual program instruction?
   A) designing
   B) testing
   C) coding
   D) Review specifications

9. What are 0 and 1 used in representation of computer data referred to?
   A) Byte
   B) Protocol
   C) ASCII
   D) BIT.

10. Convert 10010011 to decimal
    A) 156   B) 67   C) 75   D) 147

11. When you turn on your computer, the CPU performs instructions given by the .... that searches the disk drive for the main operating system files.
    A) CMOS   C)   RAM
    B) POST   D)   BIOS

12. Which one of the following practices would slow down the speed of the computer system?
    A) Increasing the amount of RAM
    B) Running several software applications at the same time
    C) Using a smaller screen or monitor
    D) Using a very small mouse

13. A local area network that uses World Wide Web standards transmissions, uploads and downloads is referred to as.....................
    A) Extranet network
    B) Closed network
    C) Intranet network
    D) SOHO network

3

14. Which one of the following statements is correct about mail merge feature of word processors?
    A) It is used to develop multiple copies of the same letter for different recipients
    B) It is used to send multiple copies of the same letter to different recipients.
    C) It is used to import multiple copies of the same letter
    D) It is used to export multiple copies of the same letter

15. Which of these types of storage devices uses a laser to record or read information?
    A) Hard disk
    B) Floppy disk
    C) CD-RW
    D) Zip drive

16. Which one of the following computer generations represents the invention of the operating system?
    A) First Generation
    B) Second generation
    C) Fourth generation
    D) Third generation

17. Which of the following is not a scanning device?
    A) OCR
    B) OMR
    C) MICR
    D) OPR

18. An address that changes, when a formula is copied to another location in a spreadsheet, is called ....
    A) absolute address.
    B) relative address.
    C) mixed address.
    D) Formula address.

19. Computer ethics would best be described by ....
    A) being polite on online.
    B) trade names.
    C) Trademarks.
    D) Copyrights.

20. Which one of the following wildcards is used to represent any string of text from nothing up to an entire paragraph or more?
    A) Asterisk (*)
    B) Double asterisk (**)
    C) Question mark (?)
    D) Two question marks (??)

4

CamScanner

SECTION B (60 Marks)

Answer all questions in this Section in the spaces provided.

21. (a) Explain the meaning of the following terms as used in computer studies:
    (i)   System software   (01 mark)

    ....

    ....

    ....

    (ii)   Service programs   (01 mark)

    ....

    ....

    ....

    (ii)   Bespoke software   (01 mark)

    ....

    ....

    ....

    (b) State the technological milestones in each of the generations below: (02 marks)
    (i) First-generation computers

    ....

    ....

    (ii) Second-generation computers

    ....

    ....

    (c) State three main features of fourth generation computers.   (03 marks)

    (i)..

    ....

    ....

    (ii)..

    ....

    ....

5

(iii)..
....
....

(d) Explain two features of modern computers that make them powerful tools.
(02 marks)

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

22. (a) Distinguish between an input and an output as used in a computer system.
(02 marks)

(i) Input

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

(ii) Output

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

(b) In the table below state the advantages and disadvantages of: (04 marks)

Monitor	Advantage	Disadvantage
CRT	(i)	(ii) ....
LCD	(i)	(ii) ....

CamScanner

(c) (i) Outline two system unit components. (02 marks)

....

....

....

(ii) Briefly explain the function of each component in c(i) above. (02 marks)

....

....

....

....

....

23.(a) (i) What do the following terms mean in computer programming? (04 marks)

An interpreter

....

....

....

....

A compiler

....

....

....

....

(b) Differentiate between low-level programming languages and high-level programming languages. (02 marks)

....

....

....

....

(c) Explain four advantages of high-level programming languages over low-level programming languages. (04 marks)

....

....

....

....

....

....

....

....

24.a) What is meant by telecommuting to an organization? (01 mark)

....

....

....

(b) State four benefits of telecommuting to an organization. (04 marks)

(i)..

....

(ii)...

....

(iii)..

....

(iv)...

....

8

(c) Describe the following terms.
(i) Webpage   (05 marks)

....

....

....

(ii) Website

....

....

....

(iii) Web portal

....

....

....

(iv) Hyperlink

....

....

....

(v) blog

....

....

....

25.(a) Distinguish between a database and a database management system software.
                                                                                (02 marks)

....

....

....

(b) Describe the following terms as used in a database management system.
                                                                                (04 marks)

   i. Record..

....

....

9

ii.   Field ....

....

iii. Field size ....

....

iv. Query...

....

(c) (i) What is a key field in a table in a database?   (01 mark)

....

....

....

(ii) List three kinds of operations that can be done with a computerised database.
                                               (03 marks)

....

....

....

....

....

26.   (a) Headache, back and neck pain may result from the use of computers. Explain **four** ways in which back and neck pain can be minimized while using computers.
                                               (04 marks)

....

....

....

....

....

....

....

....

....

....

....

(b) State how computers have been made more users friendly for persons that are:
(i) Blind. (02 marks)

....

....

....

....

(ii) Without hands. (02 marks)

....

....

....

....

(c) Describe each of the following data processing methods and give an example of where used. (02 marks)
(i) Online processing

....

....

....

....

(ii) Real-time

....

....

....

....

SECTION C (20 Marks)

Answer only one question from this Section.

27. a) Using C or any other programming platform provide a program code that can output the statement **"ICT is the way to go"**. (10 marks)

    b) Prepare a schedule of activities that you would have gone through before writing the code for the statement above. (10 marks)

28. (a) In what ways are Computers applied in Uganda today? (10 marks)

    (b) What do you expect the role of Computers to be in future? (10 marks)

29. Identify the key features of an electronic spreadsheet and discuss the advantages of using the electronic instead of a manual spreadsheet. (20 marks)

END

CamScanner