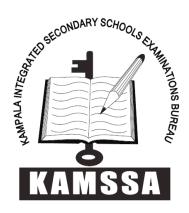*840/1*
Computer
Studies
Theory
Paper 1
July/Aug 2022

2½ hours

KAMSSA JOINT MOCK EXAMINATIONS

Uganda Certificate Of Education

COMPUTER STUDIES
Paper 1

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** objectives-type questions. The correct alternative **A, B, C** or **D** against each question 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: (20 marks)

1. How many bits are in **Subsidiary ICT**?
   A. 120.   B. 32.   C. 104.   D. 13.

2. To copy a block of selected text to a new position, one must use…
   A. Copy.   C. Copy and Paste.
   B. Paste special.   D. Cut and Paste.

3. write the cell reference of the shaded area in a spreadsheet below?

   A. A5.
   B.5AP.
   C. P5.
   D. AP5.

4. The decimal form of 101001 binary is
   A. 33.   C. 6.
   B. 41.   D. 1000001

5. Which of the following is **not** a feature of a system software specification?
   A. Cost.   C. Processor speed.
   B. RAM space.   D. Hard disk capacity.

6. Which of the following can be selected as primary Key?
   A. First Name   C. Date of Birth
   B. Last Name   D. Class Number.

7. The main difference between a peer to peer network and the client server network model is:
   A. Peer to Peer Networks requires dedicated servers while the client server model doesn't.
   B. Peer to Peer Networks allows each workstation to act as a server only while client server model have a centralised machine to act as the server while others are clients.
   C. They both require dedicated servers to properly channel data from one point to another.
   D. None of the Above.

8. Which of the following characteristic will be associated with future computers?
   A. Expensive computers.   C. Big Sized System Units.
   B. Advanced Robotics.   D. Inadequate Storage capacity

9. The area of artificial intelligence that simulates certain experiences using special head gear, gloves and software that translates data into images is called?
   A. Collaborative Technology   C. Virtual Reality
   B. Multimedia   D. Expert Systems

10. The term BIOS is the abbreviation of …………………….
    A. Basic Input Output System.   C. Basic Input Output Symbol.
    B. Best Input output System.   D. Best Input Output Symbol.

11. This component of the central processing unit (CPU) carries out all the logic and mathematical operations;
    A.   ALU   C. Registers
    B.   System clock   D. Control unit

12. The role of power supply unit is to:
    A. To converts the alternating current (AC) to Direct Current (DC) to run the computer.
    B. To converts the Direct Current (DC. to Alternating Current (AC. to run the computer.
    C. To converts the analog signals to digital signals to be used by the computer.
    D. To convert the digital signals to analog signals to be used by the computer.

13. The following type of printer has the head element that provide the physical contact with the print media:
    A. Impact printers   C. Laser printers.
    B. Page printers   D. Non-impact printers

14. Which of the following level of programming language is said to be very hard to learn?
    A.   High level programming languages
    B.   Machine languages
    C.   4th Generation languages
    D.   Assembly languages

15. The best method to safeguard your computer against computer virus is to:
    A.   Avoid the sharing of removable storage media from untrusted source.
    B.   Ensure the regular cleaning and blowing out the dust out of your computer
    C.   Do not leave the computer to work for long hours
    D.   Minimize the amount of data to be stored on your computer.

16. All storage media that can be written and read using laser beams are called:
    A.   Magnetic disk   C.   Magnetic tape
    B.   Erasable Diskette   D.   Optical Disks

17. A computer system is comprised of the four (4) components below:
    A.   Input, output, processors and storage
    B.   Hardware, Software, Human ware, Data
    C.   Input, output, processors
    D.   Adware, software, human ware and data

18. Blue tooth, infrared and Satellite are examples of
    A.   Fastest transmission media
    B.   Guided transmission media
    C.   Unguided transmission media
    D.   Direct transmission media

19. A person who accesses a computer or network illegally but has the intent of destroying data, stealing information, or other malicious actions is called.
    A.   cracker   C.   Hacker
    B.   Network administrator   D.   Programmer

20. Computer programs used in tasks such as a removal of virus or data compression can be categorized as;
   A. Desktop publishing
   B. communication program
   C. Utility programs
   D. Spread sheet program

SECTION B: (60 Marks)

Answer **all** questions in this section. All the working **must** be done in the spaces provided.

21. a) What is a **device driver**?   **(2 marks)**
…………………………………………………………………………………………………...
…………………………………………………………………………………………………...

b) Give **two** devices that may require the installation of a device driver.   **(2 marks)**
   i.   …………………………………………………………………………………
   ii.   ………………………………………………………………………..……………

c) Name **two** kinds of information normally requested to log on to a multiuser operating system
                                                                                            (2 marks)
   i.   …………………………………………………………………………………………
   ii.   …………………………………………………………………………………………

d) State any **four** functions that are normally carried out by an operating system   **(4 marks)**
   i.   …………………………………………………………………………………………
   ii.   ……………………………………………………..……………………………………
   iii.   …………………………………………………………………………………………
   iv.   …………………………………………………………………………………………

22. a) Define the term hardware.   **(1 mark)**
       …………………………………………………………………………………….……
       ………………………………………………………………………………………….

   b). i. List any **three** hardware components found inside a computer system unit.**(3 marks)**
      i.   …………………………………………………………………………………….
      ii.   ……………………………………………………………………………………….
      iii.   ……………………………………………………………………………………….
   ii)   Write CMOS in full   **(1 mark)**
       ………………………………………………………………………………………….
   iii)   Distinguish between a CMOS chip and CMOS battery   **(2 marks)**
……………………………………………………………………………..………….…………
……………………………………………………………………………….…………………..
……………………………………………………………………………..…………………..

c) i   What is a bus?   **(2marks)**
………………………………………………………………………………….………………..
…………………………………………………………………………………..……………..
   ii)   What is a port?   **(1 mark)**

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………………………………………………………………………………………..

23. a) Distinguish between system software and application software   **(2 marks)**

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…………………………………………………………………………………….

…………………………………………………………………………………….

   b) List any **three** categories of system software.   **(3 marks)**

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

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

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

   c) Explain the function of any three utility programs   **(3 marks)**

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

     …………………………………………………………………………….

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

     …………………………………………………………………………….

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

     …………………………………………………………………………….

d)   What is a bug   **(2 marks)**

…………………………………………………………………………………….…

…………………………………………………………………………………….…

24. a) What is a computer network?   **(1 mark)**

…………………………………………………………………………………….

…………………………………………………………………………………….…..

   b) Give any **one** resource that can be shared on a computer network.   **(1 mark)**

…………………………………………………………………………………….…

   c) i. Define the term topology.   **(1 mark)**

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…………………………………………………………………………………….…

     ii) With illustrations describe the following:

     Linear topology   **(2 marks)**

…………………………………………………………………………………….…

…………………………………………………………………………………….…..

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…………………………………………………………………………………….…..

     Star topology   **(2 marks)**

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…………………………………………………………………………………….…..

     Ring topology   **(2 marks)**

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d)   Define **Full-duplex** modes of data transmission   **(1 mark)**

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....

25.a) What is a computer spreadsheet?   **(1 mark)**

....
....

(b) What is the difference between **value data** and **label data**?   **(2 marks)**

....
....

(c) Give **two** examples of spreadsheet software   **(2 marks)**

    i.   ....
    ii.   ....

(d) Name **three** types of data that can be placed in a spreadsheet (cell)   **(3 marks)**

    i.   ....
    ii.   ....
    iii.   ....

(e) Describe any **two** advantages of using an electronic spreadsheet instead of   the manual traditional spreadsheet.   **(2 marks)**

    i.   ....
    ....
    ii.   ....
    ....

26. (a) Below are specifications of two different types of computers. Study and use it to answer the questions that follow:

	Computer A	Computer B
RAM	2000MB	6 GB
HARD DISK	750 GB	2 TB
SPEED	800MHZ	2 GHZ
COMPUTER WORD	32-bit	64-bit
NETWORK CARD	NO	YES
WiFi ADAPTER	NO	YES

(i) Which computer is faster in processing? **(1 mark)**

………………………………………………………………………………………

(ii) Which computer has the lowest amount of RAM? **(1 mark)**

……………………………………………………………………………………

(iii) Which computer has ability to utilize Ethernet cables? **(1 mark)**

……………………………………………………………………………………

(iv) Give your reason for the answer in (a) iii above **(1 mark)**

……………………………………………………………………………………

(v) Write the following in full. **(2 marks)**

Bit: …………………………………..………………….…………………

GHZ: …………………………..…………………...…………………………

(vi) Which computer can you choose to work as a server? **(1 mark)**

………………………………………………………………………………

(b) Suggest any **three** ways you would troubleshoot a computer that has failed to cold boot.

(3 marks)

i. …………………………………………………………………………

…………………………………………………………………………

ii. …………………………………………………………………………...

…………………………………………………………………………

iii. …………………………………………………………………………

…………………………………………………………………………

SECTION C: (20 marks)

27.(a) Define the following terms; **(6 Marks)**
   i. Computer repair
   ii. Computer servicing
   iii. Preventive maintenance

(b) Write two functions of the system administrator **(4 Marks)**

(c) Give any five safety/security rules or measures that protect a user of computers in a Computer laboratory. **(10 Marks)**

28.(a). Henry was printing documents in the computer laboratory and all the sudden, there was a paper jam. Suggest procedures Henry had to carry out to solve the problem. **(10 Marks)**

(b). Identify where the following hardware devices can be installed / fixed while setting up a computer set. **(10 Marks)**

RAM, IDE hard disk, SATA cables, printer cable, PCI card, power cable, USB cable, HDMI DVD ROM, CPU fan, digital camera

Internally connected	Externally connected
i.	i.
ii.	ii.
iii.	iii.
iv.	iv.
v.	v.

29. (a). As a computer student, you realize your school computer for the ICT Club cannot produce out sound, guide a group of ICT club members in three ways on what might have caused this problem. **(6 marks)**

(b). If you are given a compact disc having a software on it, Write the steps involved when installing software on a computer. **(10 marks)**

(c). Write any **four** safety precautions of handling a compact disc. **(4 marks)**

END