

BISHOP'S SENIOR SCHOOL MUKONO
SENIOR THREE WORK
ICT 2020

1. (a) Why is the binary numbering system used for representing digital data on computers? (2 marks).

(b) Convert the

(i) binary number 1110101011 to its hexadecimal equivalent. (04 marks)

(ii) decimal number 121 to its octal equivalent. (02 marks)

(c) (i) Define a Kilobyte. (02 marks)

(ii) Convert 0.001 megabytes to bits. (04 marks)

(d) State any **three** differences between the characteristics of RAM and ROM (06 marks)

| RAM | ROM |
|-----|-----|
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |

47. Write the following computing acronyms in full: (20 marks)

(a) GUI:

(b) CMOS:

(c) MIDI:

(d) ALU:

(e) USB:

(f) GHz:

(g) DRAM:

(h) EEPROM:

(i) ASCII:

(j) LCD:

2.(a) What is a **Software User Interface**? (01 mark)

(b) In the table below, state any **two** differences between the characteristics of a Graphical User Interface and a Command Line Interface. (04 marks)

| Command Line Interface | Graphical User Interface |
|------------------------|--------------------------|
| 1. | 1. |
| 2. | 2. |

(c) State the names of:

(i) any **three** Operating systems that use a graphical user interface. (03 marks)

(ii) any **two** Operating systems that use a command user interface. (02 marks)

What do you understand by the following terminologies and phrases?

(10 marks)

- a) The Kernel of an Operating System.
- b) Device Drivers.
- c) Warm Booting.
- d) File Extension.
- e) Virtual Memory.
- f) Spooling of Print Jobs.
- g) A Computer Software Wizard.
- h) Data Encryption.
- i) Microsoft Office Word.

Answer **all** questions in this section. Answers **must** be written in the spaces provided.

3. (a) Computer memory is now days commonly expressed in terms of the number of Gigabytes. What is meant by the term **Gigabyte**? (02 marks)

(b) Floppy Disks and CD-ROMs are used as backup media for computers.

State any **three** differences between the characteristics of Floppy Disks and CD-ROMs. (06 marks)

| Floppy Disks | CD-ROMs |
|--------------|---------|
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |

(c) What can cause a hard disk **head crash**? (02 marks)

4. (a) What is a **Computer Generation**? (02 marks)

(b) In the table below, state the following characteristics of the second and forth computer generations. (08 marks)

| GENERATIONS | 2 ND GENERATION | 4 TH GENERATION |
|------------------------------|----------------------------|----------------------------|
| (i) Major invention: | | |
| (ii) Amount of RAM: | | |
| ii. Input device(s) used: | | |
| iii. Storage device(s) used: | | |

5. (a) State any **two** advantages of using hexadecimal numbering system for representing binary digits. (02 marks)

(b) Convert the following bit patterns:

(i) 10010101 to hexadecimal numbering system. (04 marks)

(ii) 1011011 to octal numbering system. (04 marks)

marks)

6. (a) Give any explain **three** characteristics of a modern computer

(06 marks)

- (b) Outline any **two** examples of personal computers (02 marks)
- (c) Outline any **two** uses of computers in the area of entertainment (02 marks)
7. (a) Explain the following terms as used in Word processing software
- (i) Character map:** (01 mark)
- (ii) Formatting:** (02 marks)
- (iii) Footer:** (01 mark)
- (iv) Page break:** (02 marks)
- (b) Give any **four** uses of word processors in business (04 marks)
7. (i) Distinguish between a **web browser** and **E-mail software** as used in computer communications? (02 marks)
- (ii) Give any **two** examples of web browsers and E-mail software (02 marks)
- Web browsers
- E –mail software (02 marks)
- (b) Define
- (i) Search Engine (01 mark)
- (ii) Multimedia (01 mark)
- (c) Give any **two** examples of web publishing software (02 marks)
8. List down any **five** application software and describe how you would use them in your daily computer studies. (10 Marks)