1. **Gaetano** is a shopkeeper. His sells have kept on increasing year after year and now he is planning to computerize some of his tasks in the shop.
   a. State the best application for the job.   (01 mark)

   _____

   b. State two major tasks that the application stated in (b) above can be used.   (02 marks)
      i. _____
      ii. _____
   c. There is a danger of **Mr. Gaetano** losing his entire work. State any two major precautions should **Mr. Gaetano** act upon against loss off data at any possible worst outcome.   (02 marks)
      i. _____
      ii. _____

2. The company has opted to use an **Off-the-shelf** program to process its information.
   a. State any two challenges the company is likely to face with its decision (2 marks)
      i. _____
         _____
      ii. _____
         _____
   b. Write down an example of operating system used in mobile phones

   _____
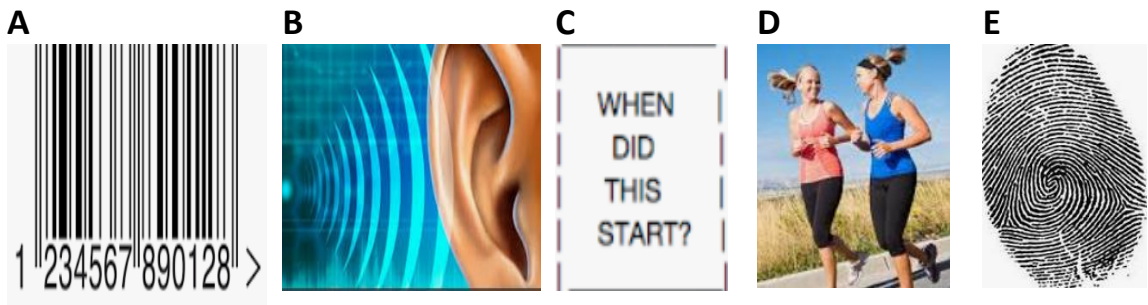
   c. Mention any two (2) search engines commonly used in mobile phone to locate and download mobile apps.   (02 mark)
      i. _____
      ii. _____

3. Write down **TRUE** of **FALSE** in the following statements (5 marks)

    i.   Computer viruses can destroy both hardware and software components if the computer is not scanned _____

    ii.   **RAM** is a memory the computer uses it for working. _____

    iii.   A monitor and Systems unit need VGA cable in order to communicate _____

    iv.   A hub in the communications network does the same job as a repeater _____

    v.   POST tries to check if all devices have the right amount of power _____

4. Observe the following type of data and imagine they are in their source (live) form:

A   B   C   D   E

State the best input devices that can be used to read the above data to the computer so it can be edited and stored: (05 marks)

A _____

B _____

C _____

D _____

E _____

5. When individuals exchange confidential messages through the network they stand the risk of information leakage to computer criminals.
   a. State the type of the above computer crime

   _____

b. Suggest the solution to the crime mentioned in (a)

_____

c. Outline any three physical measures to protect electronic equipment in the computer lab.

i. _____

ii. _____

iii. _____

6. We use several types of computer storage devices. Identify any one example of the following storage devices (3 marks)

a. Solid state device

_____

b. Sequential device

_____

c. Optical device

_____

d. Outline any two characteristics of **Read Only Memory** (2 marks)

i. _____

ii. _____

7. Mention any five types of networks and briefly state the scope of coverage and function. (5 marks)

i. _____
_____

ii. _____
_____

iii. _____
_____

iv. _____
_____

v. _____
_____

8. Match the following words appropriately with the sentences given below (5 marks)

Indentation, Software, Robot, Google, Print Preview, Copyright, Freeware, Registers

i. _____ Ownership of intellectual property.

ii. _____ Using keywords to obtain more information

iii. _____ Space between the margin and the text typed of the paragraph

iv. _____ Substituting human being

v. _____ Only useful when the information is immediately needed by the **CPU**.

9. Given the following e-mail address by your brother as **kafulu@gmail.com**, what are the four sections of an email address pointing an example from the given e-mail address? (04 marks)

   a. Section one _____

   b. Section two _____

   c. Section three _____

   d. Section four _____

   e. What is the role of **BCC** in e-mail communication?

   _____
   _____
   _____

10. Define the following as used in applications software (5 marks)

   a. **A Cell**

   _____
   _____

   b. **Absolute reference**

   _____
   _____

   c. **Database**

   _____
   _____

d. **Record**

_____

_____

e. **Foreign key**

_____

_____

11.(a) Outline three services offered by cloud computing (3 marks)

i. _____

_____

ii. _____

_____

iii. _____

_____

(b) Distinguish between **Push technology** and **Web casting** (2 marks)

_____

_____

_____

_____

_____

12.(a) Define the following: (3 marks)

i. **Booting**

_____

_____

_____

ii. **Folder**

_____

_____

_____

iii. **File**

_____

_____

_____

(b) Write down two circumstances that can lead in warm booting your computer

i. _____

ii. _____

13.(a) Distinguish between **E-time** and **I-time** (2 marks)

_____

_____

_____

_____

_____

(b) Outline three functions of an **operating system** (3 marks)

i. _____

_____

ii. _____

_____

iii. _____

_____

14.Consider the following database table.

InvoiceNo	Date	Quantity	Description	Amount

a. If **Invoice** field is the **primary key**, state one characteristic of a primary key (1 mark)

_____

_____

b. State the possible data type for the following fields: (3 marks)

i. **Quantity**

_____

ii.   **Description**

_____

iii.   **Amount**

_____

c. If you are asked to calculate **Total Amount** in a query, what is the syntax of your formula based on the above table?

_____

15. Your school has many buildings that occupy about twenty acres of land. They have asked you to plan for the network to be setup.

i.   Which type of computer network that will cover the entire school? (1 mark)

_____

_____

ii.   Twisted Pair Cables are used to transmit network across the school buildings. State one major problem of this medium as data travels at the long distance   (1 mark)

_____

_____

iii.   If you have a solution in (ii) above, state it and explain how it works (2 marks)

_____

_____

_____

_____

iv.   If the network is extended to the room with 40 computers, which network device is best to ensure each computer access network effectively? (1 mark)

_____

_____

16. (a) What are the two major ways that malware can use to reach from one computer to another? (2 marks)

i.   _____

_____

ii. _____

_____

(b) Explain two major reasons why computer as to why malware could be very dangerous. (2 marks)

i. _____

_____

_____

ii. _____

_____

_____

(c) What is a **blended threat**? (1 mark)

_____

_____

_____

_____

17. (a) Write down two reasons why users will prefer to use **USB ports** instead of **PC/2** ports (2 marks)

i. _____

_____

_____

ii. _____

_____

_____

(b) Briefly explain three positive implications of using ICT in Uganda politics (3 marks)

i. _____

_____

_____

ii. _____

_____

_____

iii. _____

_____

_____

18.(a) If you are given the following URL

http:\\www.kcc.co.org.ug\kampala\mengo.index

i. Write down the top level domain (1 mark) -

_____

ii. Write down the second level domain (1 mark)

_____

iii. Identify the protocol used to transmit data from server to client (1 mark) _____

iv. Which file is likely to open on the client computer? (1 mark)

_____

v. Write **URL** in full (1 mark)

_____

19. Large files can now be transmitted from one computer to another. But users find it easier to transmit compressed video files.

a. State two disadvantages of compressed files (2 marks)

i. _____

_____

ii. _____

_____

b. Define the following terms (3 marks)

i. **MPEG**

_____

_____

_____

ii. **JPEG**

_____

_____

_____

    iii.   **MP3**

_____

_____

_____

20. Define the following Internet terms:

    a. **Hypertext**

_____

_____

_____

    b. **A wiki**

_____

_____

_____

    c. **Cloud computing**

_____

_____

_____

    d. **A blog**

_____

_____

_____

    e. **Web master**

_____

_____

_____