

# MARKING GUIDE

840/1  
COMPUTER STUDIES  
Paper 1  
2½ hours

INDEX NUMBER							

MASAKA DIOCESAN EXAMINATIONS BOARD  
UGANDA CERTIFICATE OF EDUCATION  
COMPUTER STUDIES  
Paper 1  
2 Hours 30 Minutes

## INSTRUCTIONS TO CANDIDATES

Write your name and signature in the spaces above.

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 against each question must be written in the box provided on the right-hand side of each question.

Section B consists of six structured questions. Attempt all.

Answers to section B *must be written* in the spaces provided in the question paper.

Any additional question(s) answered will not be marked.

*For examiner's only*

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	A27	Q28	Q29	TOTAL

**SECTION A (60 MARKS)**

*Attempt all questions in this section*

1. The use of large scale integrated circuits was evidenced in .....generation of computers  
A. First  
B. Second  
C. Third  
D. Fourth D
  
2. To make text thicker in a sentence in word processing, you .....  
A. Bold  
B. Press B  
C. Underline  
D. Colour text A
  
3. The purpose of a blower in a computer laboratory is to.....  
A. Upgrading computer software  
B. Regulating power consumption  
C. Remove dust from ICT tools  
D. Upgrading computer hardware C
  
4. A search engine is a .....  
A. Program that enables you to locate content via key words  
B. Page that starts each time you start your web  
C. Collection of programs maintained by a web master  
D. Page that has links to other web pages A
  
5. One of the following is NOT an advantage of fibre optic cables.  
A. It is relatively inexpensive by cost and easy to install  
B. All computers on the LAN can be connected to the cable at the same time  
C. Each computer can access the same cable from other computers on the LAN  
D. All computers on the cable can share peripherals over the internet A
  
6. A technique used to identify and correct errors in programs is called?  
A. BIOS  
B. Down loading  
C. Debugging  
D. Trouble shooting C
  
7. The computer specification that would determine the amount of data held while the computer is running is.....  
A. Screen size  
B. Screen resolution  
C. Hard disk capacity D

D. RAM size

8. Which of the following is not part of computer storage?

- A. Field
- B. Bit
- C. Byte
- D. Kilobyte

A

9. The basic function of a query in database management software is to .....

- A. Enhance the database
- B. Download primary keys
- C. Filter for specific records
- D. Update macros

C

10. The following are classifications of computers by purpose:

- A. Mainframe and microcomputers
- B. Special and general purpose computers
- C. Digital and analog
- D. Minicomputers and microcomputers

B

11. The importance of a slide sorter view in presentation software is to .....

- A. Insert items that appear on every slide
- B. Display all slides on a screen at once
- C. Relate data in slides
- D. Filter data in slides

B

12. The following are examples of service programs except?

- A. System monitors
- B. Expert systems
- C. Screen saver
- D. Anti-virus

C

13. The science of designing machines that can do dangerous jobs is .....

- A. Interactive mode
- B. Virtual reality
- C. Advanced robotics
- D. Real mode

C

14. One software measure of preventing computer systems from security risks is .....

- A. Employing guards
- B. Setting up CCTV cameras
- C. Data encryption
- D. Burglar proofing

C

15. This internet component provides the text version of a given address on the web.

- A. ISP
- B. DNS
- C. WEB
- D. URL

B



16. Which of the following HTML tags creates a horizontal rule?
- A. <horu>.....</horu>
  - B. <hxr>.....</hxr>
  - C. <hr>.....</hr>
  - D. <hr>

D

17. Which computer component permanently holds data?

- A. ALU
- B. Control unit
- C. ROM
- D. Logic unit

C

18. The GUI feature that provides a list of options from which to choose is .....

- A. Menu
- B. Icon
- C. List
- D. Recycle bin

A

19. Which of the following is not an example of a language translator?

- A. Assembler
- B. Interpreter
- C. Defragmenter
- D. Compiler

C

20. In spreadsheet software, a single page in which data is entered is called a.....

- A. Document
- B. Worksheet
- C. Workbook
- D. Spreadsheet

B

### SECTION B (60 MARKS)

*Attempt all questions in this section*

- 21a) Define the term computer system.

(02 Marks)

**A computer system is a complete set of components required to operate and use a computer.**

- b) Which keyboard shortcut is commonly used to perform each of the following tasks?

(03 Marks)

- i) To cancel a print command.

**ESC**

- ii) To refresh a web page

**F5**

- iii) To activate save as dialogue box.

**F12**

- c) Mention two ways through which use of computers negatively affect businesses and trade. (02 Marks)

**Computer failure due to power outages, crashes or viruses can lead to data loss**

**Computers can create distractions where there is full Internet access.**

Individual privacy may be abused in cases of confidential data on the computers.  
Some staff has to be trained or retrained which adds to operational costs.

d) Identify the computer professional who undertakes each of the following tasks. (03 Marks)

i) Repairing damaged computers

**Computer technician**

ii) Recovery of data from electronic media

**Digital forensics expert**

iii) Writing software codes

**Computer programmer**

22a) Explain the function of a communication device. (02 Marks)

**Communication devices enable two or more computers to exchange data, instructions and information with each other.**

b) Mention two examples of communication devices. (02 Marks)

**Modem**

**Switch**

**Hub**

**Router**

**Network Interface Card (NIC)**

**Gateway**

**Multiplexer**

**De-multiplexer**

**Repeater**

**Bridge**

c) Why are device drivers important to computer systems? (01 Mark)

**Device drivers provide an interface between a peripheral device and the computer**

d) Write down any three advantages of using a flash disk over a DVD-RW. (03 Marks)

**Flash disks have a more compact and durable shape, design compared to DVD-RWs**

**Flash disks hold much more data compared to DVD-RWs**

**Flash disks operate more reliably due to no moving parts compared to DVD-RWs**

**Flash disks are more compatible with almost any computer compared to DVD-RWs**

d) Write the following abbreviations in full. (02 Marks)

i) USB **universal serial bus**

ii) VGA **video graphics adaptor**

23a) What is the function of a cell name box in spreadsheets? (02 Marks)

**The cell name box displays the name of the cell that is currently selected**

b) Mention any three logical functions used in spreadsheets. (03 Marks)

**IF function**

**Count IF**

c) Explain the use of the following database components.

i) Field.

A field holds specific information within a record.

(02 Marks)

ii) Record.

A record contains all information about a given person, product or event (an individual entry in a table)

(02 Marks)

ii) Primary key.

A Primary Key uniquely identifies each record in a table.

(01 Mark)

24a) Apart from Protocols, identify four other elements of data communication.

(04 Marks)

Message

Sending device

Receiving device

Transmission media

b) State any three advantages of wired networks.

(03 Marks)

Generally have faster data transfer

Much less likely to suffer from interferences

More difficult for unauthorized users to intercept data

c) Mention any three qualities of a good web page.

(03 Marks)

Should load quickly

Should have good navigation buttons

Should have feedbacks

Should have a web page title and brief

Should have links to other resources

) Should have date of last update

25a) Identify two tasks that can be performed under page set up in word processing.

(02 Marks)

Setting page orientation

Setting paper size

Setting columns

Setting margins

Setting page and section breaks

b) Explain the following features as used in word processing.

i) Scrolling.

(01 Mark)

Enables users to view all the text by shifting or moving to the right or left, up or down.

ii) Word wrap.

(01 Mark)

Enables a word that doesn't fit on a line automatically moves to a new line without pressing the enter key or carriage return.

iii) Drop cap.

(01 Mark)



The **dropped cap** is a large initial capital letter that can be used to begin a document or a chapter, or to add interest to a newsletter or invitation.

c) Define the following terms as used under electronic presentations.

i) Slide.

(01 Mark)

A slide is a single page in an electronic presentation.

ii) Presentation.

(01 Mark)

A presentation refers to a series of slides on a particular topic.

iii) Animations.

(01 Mark)

Animations refer to special visual or sound effects added to slides in a presentation.

d) Apart from Google slides, identify any two electronic presentation programs.

(02 Marks)

Microsoft PowerPoint

Google slides

K-presenter

Screen cast

Open office impress

Corel presentations

Lotus freelance graphics

26a) Define the term computer software.

(02 Marks)

Software refers to a series of electronic instructions that tell a computer how to perform tasks.

b) Give three categories of system software.

(03 Marks)

Operating system

Programming languages

Utilities

c) Define the following terms in relation to computer software.

i) User interface

(02 Marks)

A user interface is a combination of hardware and software that you use to communicate with and control the computer.

ii) Screen Saver

(02 Marks)

A screen saver is a utility that causes a monitor's screen to display a moving image or blank screen if no keyboard or mouse activity occurs for a specified time period.

iii) Free ware

(01 Mark)

Copyrighted software provided at no cost to users

**SECTION C (20 Marks)**  
*Attempt only one number from this section*

27. As a student of computer studies, explain ten general measures undertaken to safe guard computer systems. (20 Marks)

Legislation/setting up working laws e.g. computer lab rules, ICT use policy, Code of conduct around computer use ranging from hardware movement, installation etc

Burglar proofing

Regular servicing and maintenance

Servicing through professionals

Avoiding dust and water into hardware by use of dust and water proof covers.

Education/sensitizing users about basic hardware care/practices

Electric power surge protectors/Proper electrical wiring/earthling /insulation.

Bolting hardware on walls, tables and ground

Engage alarms systems e.g. smoke, fire detectors

Authentication systems like biometric, swipe cards, identity cards etc

Hardware audits on regular basis

Engraving/labeling hardware

Security guards to take an eye on the installations

Use of CCTV cameras for surveillance for feedback and evidence.

Installation of lightening arrestors

Keeping rooms under lock and key

Avoid exposure to direct sunlight and extreme temperatures.

Turning off the computer system when not in use.

Proper turning on/off the computer system

Minimize visitors to the computer laboratory

Install update antivirus definitions

Scan external storage media

Activate firewalls

Security enhancement with CCTV cameras

Use power backups and stabilizers to avoid crashes

Sensitise users about data security

28. a) Explain five circumstances under which you may need to use a flash disk for data storage. (10 Marks)

When there is need to access files on various electronic devices with USB ports

When files have to be kept for a long time (quickly and easily backup files)

When more files have to be added from time to time

When there is need create a boot disk

b) Explain how you would make a flash disk ready for data storage.

(10 Marks)

**Under Windows operating system**

Insert a USB drive into a USB port.

Open File Explorer.

Click on This PC from the left pane.

Under the "Devices and drives" section, right-click the flash drive and select the Format option.

Use the "File system" drop-down menu and select the preferred option.

In the "Allocation unit size" drop-down menu, use the default selection.



In the "Volume label" field, confirm a drive name that will appear in File Explorer. For example, KingstonUSB.

Under the "Format options" section, select the Quick format option or don't depending on the use case.

Click the Start button.

Click the Yes button.

Once format is finished, the USB flash drive will be all set to store documents, pictures, videos, and other files on the removable drive.

#### **Under Mac operating system**

Insert a USB drive into your USB port.

Launch "Disk Utility" (from Applications > Utilities > Disk Utility).

Select the USB drive from the list on the left.

Select "Erase" at the top.

Type in a "Name" for the drive, then select a "Format" (file system).

Select "Erase".

Once complete, select "Done".

Once format is finished, the USB flash drive will be all set to store documents, pictures, videos, and other files on the removable drive.

29a) Clearly explain the computer power up procedures.

(05 Marks)

Switch on the mains

Switch on the UPS or stabiliser

Switch on the system unit

And finally switch on the monitor

b) Explain five circumstances that may require you to restart your laptop.

(15 Marks)

When an application or operating system freezes/hangs/ does not respond

After installation of a new software (application or utility)

When a peripheral or hardware component has failed to function/work

During/After installation of operating system.

After changing use control settings(CMOS/BIOS settings)

When a user wants to clear a malicious infection like malware, spyware, viruses that are in memory

After software update

After uninstalling software

After uninstalling hardware

After installing a new hardware

When the computer system slows down

When there is suspected system tapping

When a user wishes to switch from one operating system to another (Multiple O.S)

After malware/virus scanning

When a deadlock occurs

Before Installing software

When application software fails to work

END