

COMPUTER STUDIES FORM 1 END TERM 2 – 2024 EXAMINATION MARKING SCHEME

a) What is a peripheral device?	[1mk]				
• Peripheral devices are the ele	(components) connected to the system unit so as to ass				
the computers satisfy its users					
• Peripheral devices are the ele	(components) connected to the system unit via the date				
interface cables.					
b) Name four examples of periph	vices. [2mks]				
• keyboard, mouse, monitor, pr	torage device, microphone etc.				
c) Differentiate between data inte	able and power cable. [4mks]				
• Data interface are used to con	device to the computer system and are used to carry data po				
cable are used to transmit po					
d) List three types of interface cal	[3mks]				
• Serial	HDMI				
• parallel	• Firewire cable				
• VGA cable	• USB cable				
2. Name four characteristics	mputer. [4mks]				
• Accuracy	• Memory /vast storage				
• Versatile/flexibility	• Speed				
• Diligence	<i>Reliability</i>				
3. State four characteristics of	fth generation of computers. [4mks]				
• Technology used is	 Distributed computing system 				
superconductor and p	has been introduced				
processing	 Small, but high capacity storage 				
 Voice recognition inputies 	es device called				
introdu <mark>ced such as m</mark> i	re • Speed				
Artificial intelligence	Portability				
introduced	Emitted very little or negligible				
• Internet introduced	• Easy to use and maintain				
	• Software user-friendly				
1. Name four mouse techniq	give the function of each. [8mks]				
• Double click- <i>open a p</i>	n, select a word				
• Click- select an item,	a command				
• Right click- opens a c	ensitive menu				
• Drag and drop- <i>move</i>	from one place to another.				
5. Name three categories of 1	rd keys. [3mks]				
Alphanumeric	• Cursor movement and editing				
Number	keys				
• Numeric keypad	Special purpose keys				
	• Function keys				
5. State three facilities that v	State three facilities that will ensure proper ventilation in a computer laboratory. [3mks]				
 Large & enough wind 	Large & enough windows and doors				
• Installing fans	• Installing fans				
Installing air condition	Installing air conditioning system				
• Avoid overcrowding o	machines or people in the room				



7.	 Explain the following power related problems experienced in the computer lab. [6mks] Brownout- <i>this is a partial blackout. It is the condition whereby there is low voltage flowing to the system.</i>
	 Blackout-this is the situation where there is no current flowing to the system. Power surge-is a condition where there is high voltage flowing to the system.
8.	 Name three ways of classifying computers, giving an example for each category. [6mks] <i>Functionality – analog, digital and hybrid</i> <i>Physical size and processing power- supercomputer, mainframe, mini and</i>
	microcomputer.
	Purpose – general and special purpose
9.	Explain the following components of a computer system. Hardware [2mks]
	• The physical components of a computer which are tangible.
	Software [2mks]
	• A set of instructions that guide the computer in each and every activity during data processing.
	Liveware
	• refers to the computer user. [2mks]
10.	a) Give two functions of an input device. [2mks]
	• Accepts data from the medium in which it is stored
	• Convert data from human readable form to computer/machine readable form
	• Transmit the data to the computer for processing.
	b) List six examples of input devices. [3mks]
	 mouse, keyboard, joystick, trackball, touch screen/monitor/screen, scanners OMR, OCR, OBR, badge readers, microphone,
	c) State three factors to consider when choosing an input device. [3mks]
	• Volume of data to be entered
	• The type of data to be entered
	• Speed of input
	• Special needs of the user
	• The cost of the input device
	• Compatibility of the input device
11	• The reliability of the input device
11.	a) Differentiate between softcopy output and hard copy output. [4mks]
	• Softcopy output is the output that can be listened or can be viewed while hardcopy
	ouipui is the printed output from a printer, plotter etc.
	 Solicopy refers to the intangible output while hardcopy refers to the tangible output. b) Give two examples of softcopy output devices and two hordcopy output devices.
	b) Give two examples of softcopy output devices and two nardcopy output devices.
	• Softcopy output devices- LED Monitor speakers data projectors TV screen
	- Soficopy ompai acrices LLD, monitor, speakers, and projectors, 1 + sereen

• *Hard copy output devices – printer, plotter, fax machines, COM*



c) State three differences between an impact and a non-impact printer. [6mks]

Impact printers	Non-impact printers
Speed of printing is low	Speed of printing is high
Use inked ribbons, which may be	Use electrostatic or thermal principles or
colored or black	toners
Multiple copy production is possible	Multiple copy production is almost impossible
when carbonated paper is used	
Cheaper to buy and maintain. The	Costly to purchase and maintain. The toners
ribbons are not expensive	and cartridges are expensive
Noisy printers.	Quiet printers.
Poor quality prints out.	High quality print out.

a) Describe three functional elements of the Central Processing Unit.	[6mks]
Control Unit	
Arithmetic and logic	
Main memory	
b) Define a computer bus.	[2mks]
Electronic pathway for data and instructions.	
c) Name and explain three types of computer buses.	[6mks]
• Data bus	
• Address bus	
Control bus	
a) Write in in full the following acronyms.	[2mks]
RAM- Random Access Memory	
ROM- Read Only Memory	
b) State three differences between RAM and ROM.	[3mks]

RAM	ROM
Volatile	Non volatile
Temporary	Permanent/semi-permanent
User defined	Firmware
Hold data	

14.	Give three difference between	CRT monitor and flat	panel displays.	[3mks]
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CRT	FLAT PANEL DISPLAY
It is bell shaped	It is flat shaped
Has poor resolution	Has a high resolution
Heavier, hence not portable	Light, hence portable
Occupies more space	Occupies less space
Cheaper	Expensive
Produces a high amount of radiation	Produces a low amount of radiation
Consumes more power	Consumes less power

13.



- 15. State three factors to consider when selecting a storage device.
 - *Cost: the storage devices come in different prices*
 - Availability: is the desired storage device available in the market
 - Accessibility to information stored in it: this may be sequential or direct/random
 - Durability: one should buy a device that is long lasting.
 - Storage capacity: a device with large storage capacity will hold more data and information. Some devices have large capacities in megabytes, gigabytes etc.
 - *Physical size and portability: some devices can easily fit in a pocket while others cannot. Some devices have storage are more portable; that is, they can easily be carried from place to place.*
 - Compatibility with the existing computer system hardware: a system should have for example, a CD drive if the device to be used is a CD.
 - State three ways a computer can be used in a school.

[3mks]

[3mks]

- 16.
- In research
- Analysis of examination
- In library
- During registration especially NEMIS-admission of new student
- Preparing examination
- For entertainment
- As teaching aids