

840/1
COMPUTER
STUDIES
Paper 1
28th July 2022
2 ½ hours



KAMPALA WAKISO GIANT SCHOOLS' ASSOCIATION

Uganda Certificate of Education

National Joint Mock Examinations 2022

COMPUTER STUDIES

(Theory)

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

*This paper consists of **three** sections **A, B** and **C**.*

*Section **A** contains **40 compulsory** objective-type questions.*

*Write your best alternative: **A, B, C** or **D**, in the box provided.*

*Section **B** contains **four compulsory** structured questions. Answers **must** be written in the spaces provided.*

*Section **C** is made up of **three** questions. Attempt only **one** question.*

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MCQ	21.	22.	23.	24.	25.	26.	27.	28.	29.	Total

SECTION A: (20 marks)

Compulsory

1. A computer system is defined as.....
 - a. A series of hardware, software, user, data, procedures and communications that co-ordinate to perform a task. ☐
 - b. A device that allows data input, process, storage and output.
 - c. The transfer of data and information from one place to the other and receiving of feedback
 - d. None of the above

2. What are the elements that make up a computer system?
 - a. Keyboard, mouse, scanner, and light pen
 - b. computer laboratory, cameras, printers and users. ☐
 - c. input, process, storage and output.
 - d. Hardware, software, data, user, procedures and communications.

3. Define the term email.
 - a. This is a message transmitted through a computer network.
 - b. This is the processes of transmitting, messages through a computer network.
 - c. This is the sending and receiving of messages through a computer ☐
 - d. this refers to the act of hacking into a computer

4. The following are advantages of using emails except.
 - a. They are delivered extremely fast as compared to traditional post.
 - b. They can be sent in 24 hours a day and 365 days a year ☐
 - c. They can be sent and received using any computer
 - d. They can allow input and output of data and information.

5. Which of the following is a characteristic of modern computers?
 - a. They are cheap
 - b. They can do the same activity repeatedly without getting tired. ☐
 - c. they allow Other files to be attached to give details
 - d. Records and copies are kept electronically while communicating.

6. What is data communication?
 - a. Is the input and output of data into information
 - b. Is the sending and receiving of data ☐
 - c. Is the transfer of data, information and instructions from one computer to another or others.

- d. Is the process of executing all computer functions.
7. The following are basic models for data communication except? ☐
- A sending device: this initiates the communication
 - A communication device: converts data, information and instructions from the sending device into signals that can be carried by the communication channel.
 - A monitor screen: used to display the communication taking place
 - A communication channel: this is a path over which the signals are sent.
8. Devices with which one can control a cursor or pointer on a graphical user interface to enter data and instructions into a computer are known as..... ☐
- Input devices
 - Output devices
 - Storage devices
 - Pointing input devices
9. Which of the following is an old man out? ☐
- Mouse and tracker ball,
 - touch screen and touch pad
 - pointing stick and light pen,
 - joy stick
10. PROM refers to..... ☐
- programmable read only memory
 - Propability red and orange magnet
 - protected read only memory
 - program read only memory
11. The following are functions of a primary memory except? ☐
- It stores programs or files under current use
 - Stores files needed for a complete boot process of a computer
 - It determines the efficiency and performance of a computer
 - It stores data and information permanently after power cut off
12. which of the following is a part of the CPU that helps in dealing with rational and mathematical expressions ☐
- Control unit
 - Arithmetic and logical unit
 - Memory unit
 - The compressor
13. Define the term internet
- Internet refers to a worldwide system of computer networks sometimes referred to as an international network.

- b. Internet refers to a network of users who share common servers. ☐
- c. Is a server computer that controls the network ☐
- d. Is a direct form of communication where data and instructions are transmitted from one computer to another.
- 14.** The following are advantages of internet except? ☐
- b. Communication d. Spamming
- c. Research e. Education
- 15.** The following are the things one needs to access internet services except? ☐
- a. A network interface card (NIC)
- b. internet service provider (ISP),
- c. the hardware
- d. operating system
- 16.** The external devices that are installed or connected on a computer system to improve on its functioning are known as? ☐
- b. Output devices d. Peripheral devices
- c. Optical devices e. Electronic devices
- 17.** Identify the odd man out from the following
- a. A printer c. A scanner
- b. A projector d. A motherboard
- 18.** Write a UPS in full. ☐
- a. universal peripheral system
- b. uninterrupted power supply unit
- c. united power supply unit
- d. universal power supply unit
- 19.** What does Ctrl+P mean as used in Word processing? ☐
- b. paste d. print
- c. point e. paint
- 20.** A system software set of programs containing instructions that coordinate all the activities of a computer is referred to as? ☐
- a. Application system software
- b. Customized system software
- c. Operating system
- d. Utility software

SECTION B

Attempt all questions in this section

21. (a) Differentiate between **peer-peer** and **client-server computer network** (02 marks)

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- b) Identify any three advantages of using a peer-peer network over a client server network (3 marks)

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22. (a) What is meant by the term Word processing software? (2 marks)

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- b) Give three any other categories of application software. (2 marks)

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23. Write the importance of the following shortcuts on a keyboard as used in MS Word. (5 Marks)

- a) **Ctrl + X:**
- b) **Ctrl + V:**
- c) **Ctrl + Y:**
- d) **Ctrl + S:**
- e) **Shift + F3:**

24. Explain the importance of the following network physical transmission media.

- a) File server:
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- b) Workstation:
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- c) Network interface card:
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- d) Ethernet Cards:
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- e) Bridges:
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- 25.** a) Distinguish between data and information (2 Marks)
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- b) In the space provided below, draw an information processing cycle and name it well. (3 Marks)

- 26.** Suggest any five computer laboratory rules and regulations that you know. (05 Marks)

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- 27.** (a) Distinguish between cold booting and warm booting (2 marks)

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- b) Outline three reasons for carrying out warm booting (3 Marks)

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28. (a) State **two** sign or symptom of an operating system failure in the computer system (2mark)

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- (b) State **two** examples of windows operating system. (2 marks)

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29. (a) What are computer secondary storage devices? (1 Mark)

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- (b) Identify any four examples of secondary storage devices used. (4 Marks)

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30. (a) Briefly describe the concept of computer security threat. (2 marks)

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(b) State **three** computer security threats that you know. (3 marks)

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SECTION C (20 Marks)
*Choose **one** question from this section.*

- 31.** a) Define the term artificial intelligence
b) Explain the ten areas where artificial intelligence is applied
- 32.** a) What is a computer network?
b) Discuss five advantages and disadvantages of installing a computer network
- 33.** a) What is a computer virus?
b) Suggest the best ways through which virus can be prevented in a computer

END