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Index No.....

School.....

Signature

840/1
COMPUTER STUDIES
PAPER 1
July/August 2023
2½ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

COMPUTER STUDIES

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- 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** for each question must be written in the box provided on the right hand side of each question.
- **Section B** consist of six **compulsory** structured questions. Answers to this section must be written in the spaces provided.
- **Section C** contains **three** essay questions. Attempt only **one**. Answers to this section must be written in the answer booklets/sheets provided.

For examiners' use only

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

SECTION A (20 marks)

Write the correct alternative in the box on the right hand side of each question.

1. The operating system that supports two or more CPU's running programs at the same time is
A. Single user OS.
B. Multi-processing OS.
C. Multi-tasking OS.
D. Multi user OS. ☐
2. If the computer monitor displays "No signal" after pressing the power button, it is quite possible that
A. the computer is not connected to the UPS.
B. a virus has deleted some of the files.
C. there are some loose or disconnected plugs.
D. the VGA cable is not connected to the monitor. ☐
3. One of these factors doesn't affect the internet speed.
A. Bandwidth.
B. Cost of installation.
C. Traffic on the internet.
D. Type of transmission. ☐
4. is an example of a binary code.
A. JAVA
B. ADA
C. ASCII
D. FORTRAN ☐
5. In spreadsheet software, the file you create and save is called a
A. document.
B. worksheet.
C. workbook.
D. spreadsheet. ☐
6. Rights enforceable by law accorded to a developer of software is called
A. copyright.
B. patent rights.
C. trade secret right.
D. trade mark. ☐
7. The amount of virtual memory reserved by a computer depends on
A. the BIOS setup.
B. type of computer.
C. operating system.
D. internet service provider. ☐
8. The decimal form of 10101 binary is
A. 31.
B. 20.
C. 10.
D. 21. ☐

9. Which of the following best characterises the mechanical era (1623 – 1945) computer evolution?
- A. Napier bones
 - B. Programming languages
 - C. Leibniz calculator
 - D. Multics
10. In a database, a collection of fields that contain data about a single activity or transaction is referred to as a
- A. file.
 - B. table.
 - C. record.
 - D. primary key.
11. The command that displays files and directories in command prompt is
- A. C:\>cd
 - B. C:\>dir
 - C. C:\>c/s
 - D. C:\>md
12. Which of the following makes up the last phase of system development cycle?
- A. Feasibility
 - B. Coding
 - C. Maintenance
 - D. Testing
13. Which one of the following is not a programming tool?
- A. Debugger
 - B. An interpreter
 - C. Notepad
 - D. A compiler
14. Which of the following limits how much information can be transmitted over a communication channel?
- A. Broadband.
 - B. Bandwidth.
 - C. ISP.
 - D. Modem.
15. The points of connection between a computer and its peripherals is called
- A. network cards.
 - B. ports.
 - C. cables.
 - D. sockets.
16. The system clock
- A. shows the time and date.
 - B. determine the processing speed.
 - C. determines the rate at which instructions are executed by the processor.
 - D. turns off the computer after along time.

Turn Over

17. To get back a file from the recycle bin you perform
A. undo.
B. restore.
C. retrieve.
D. restart. ☐
18. Okello intends to create an inventory. Which of the following is the most suitable software to use?
A. Ms-Word.
B. Ms-Access.
C. Ms-Excel.
D. Pascal. ☐
19. Which of the following webpage design tools requires the most effort from a designer?
A. A text editor.
B. An HTML editor.
C. A word processing program with design functions.
D. A WYSIWYG editor. ☐
20. The term used to refer to the ability of a computer to perform the same task for a long time without getting tired is
A. versatile.
B. accurate.
C. diligent.
D. spontaneous. ☐

SECTION B (60 MARKS)

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

21. (a) Distinguish between **analog computers** and **digital computers**. (2 marks)

- (b) Explain **three** characteristics of third generation computers. (3 marks)

- (c) (i) List down **three** qualities of good information. (3 marks)

- (ii) Mention **two** examples of data. (2 marks)

22. (a) (i) What is meant by a **storage device**? (2 marks)

(ii) Distinguish between **writing** and **reading data** as used in storage device. (2 marks)

(b) Describe the following machine cycle operations. (3 marks)

(i) **Fetching**

(ii) **Executing**

(iii) **Decoding**

(c) State the function of the following in a computer (3 marks)

(i) **PC 1 slot**

(ii) **Motherboard**

(iii) **CMOS**

Turn Over
5

23. The table below shows part of a database, use it to answer questions that follow.

Employee No	Name	Tel. No	Salary	No of months	Total pay
E227008	Betty	0707998142	8,700,000	3	
E227011	Kintu	0774874745	8,400,000	4	

- (a) Write down the data types for the following fields.

(i) Tel. No (1 mark)

(ii) Salary (1 mark)

- (b) How many records do we have in the table above? (1 mark)

- (c) (i) Explain **two** reasons for an organization to adopt the use of DBMS? (2 marks)

- (ii) Write the formula to be entered in a form design to determine the total pay. (3 marks)

- (iii) Write down a criteria that returns names that end with "y" in a query. (2 marks)

24. (a) (i) Identify the requirements of setting up computer networks. (3 marks)

- (ii) Which networking protocols can be used in the transmission of data packets from one address to another? (2 marks)

- (b) (i) Describe **three** elements of a good website. (3 marks)
- (i) _____
- (ii) _____
- (iii) _____
- (ii) Mention **two** benefits of having a website of a school. (2 marks)
- (i) _____
- (ii) _____

25. (a) Describe the following terms as used in word processing. (2 marks)
- (i) **Endnote**

- (ii) **Line spacing** (2 marks)

- (b) Write short notes on the following as used in presentation software. (2 marks)
- (i) **Transition looping**

- (ii) **Slide master** (2 marks)

- (iii) **Slide layout** (2 marks)

26. (a) Mention **three** advantages of using a Graphical user interface (GUI) over a Command – line user interface (CLI). (3 marks)

- (b) Give reasons why a user may decide (2 marks)
- (i) **to compress a file**

Turn Over
7

(ii) to back up a file (2 marks)

(c) Explain the following terms as used in programs.

(i) Source code (1 mark)

(ii) Object code (1 mark)

(iii) Syntax (1 mark)

SECTION C (20 marks)

Answer only one question from this section.

Answers to this question must be written on the answer booklet/sheets provided.

27. (a) Explain indicators of a computer system failure? (10 marks)
- (b) Describe the measures you would put in place to control computer system failure. (10 marks)
28. (a) Describe how a user can set up a LAN (Local Area network) in a school setting. (10 marks)
- (b) Explain the limitations of a computer Network to an organization. (10 marks)
29. (a) Explain **three** methods of error detection in a program code. (06 marks)
- (b) Describe **four** characteristics of a good programming language. (08 marks)
- (c) Write a simple computer program code which can be used to output your surname and Given name on two lines. (06 marks)

END

