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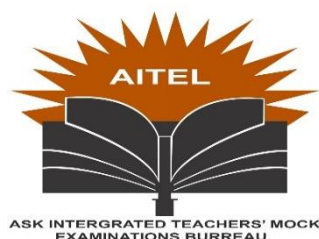
Computer Studies

Paper one

July/August 2023

Theory

2 ½ hours



AITEL JOINT MOCK EXAMINATION

Uganda Certificate of Education

Computer Studies

Paper One

2 Hours 30 Minutes

INSTRUCTIONS TO CANDIDATES:

- This paper is made up of three Sections A, B and C respectively.*
- Answer **all** questions in section A and B.*
- Attempt only **one** question in Section C.*
- Answers in Section A should be written in the box provided against each question.*
- Use of **relevant examples** will lead to **bonus marks**.*

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MCQ	21	22	23	24	25	26	27	28	29	TOTAL

SECTION A: (40 MARKS)

Write a letter corresponding to the best alternative in the box against each question.

1. is remembered for his invention of the Analytical Engine.
 - A. Pascal Blaisé.
 - B. Gottfried Wilhem von Leibniz.
 - C. Herman Hollerith.
 - D. Charles Babbage.

2. Output is to LCD and is to CPU.
 - A. communication
 - B. storage
 - C. processing
 - D. input

3. You can boost speed of the computer by installing a new
 - A. A CD ROM drive.
 - B. Monitor.
 - C. Hard disk.
 - D. Keyboard.

4. Signal strength can be improved across a long distance by adding a:
 - A. Router.
 - B. Bridge.
 - C. Switch.
 - D. Gateway.

5. Copyrighted software provided at no cost is referred to as:
 - A. Custom tailored.
 - B. Freeware.
 - C. Shareware.
 - D. General purpose.

6. In a presentation program makes the work run appear interesting.
 - A. transition
 - B. animations
 - C. background colour

D. clip art

7. Which of the following is **NOT** a good application of artificial intelligence today?
- A. Printing work.
 - B. Detecting locations.
 - C. Expert systems.
 - D. Face recognition.
8. A spreadsheet program can handle complex activities that includes the use of:
- A. Rows and columns.
 - B. Charts.
 - C. What If analysis.
 - D. Worksheets.
9. is the process of removing a programming code error.
- A. Compiling
 - B. Translating
 - C. Decoding
 - D. Debugging
10. One of the following is a common effect of computer use today:
- A. Laziness.
 - B. Unemployment.
 - C. Betting.
 - D. Vote stuffing.
11. The keys on the keyboard allows a user to create a page break.
- A. Ctrl + Enter
 - B. Shift + Enter
 - C. Alt + Enter
 - D. Caps Lock + enter
12. Software containing several programs sold as a single entity is referred to as:
- A. Integrated.
 - B. Packaged.
 - C. Combo.
 - D. Suite.
13. A radio at home is a good example that allow communication.

- A. Simplex
 - B. Half duplex
 - C. Full duplex
 - D. Multiplexing
14. <u>, <mark> are examples of html:
- A. Behaviours.
 - B. Elements.
 - C. Attributes.
 - D. Containers.
15. A microphone is connected using a port.
- A. Jack
 - B. PS/2
 - C. USB
 - D. Firewire
16. Mechanical era computing devices had the following features **EXCEPT**? They had:
- A. Small storage.
 - B. Moving parts.
 - C. Set of dials.
 - D. A collection of gears.
17. Which of the following is an editing facility in a word processor?
- A. Bold.
 - B. Underline.
 - C. Paste.
 - D. Superscript.
18. Which of the following network cabling will guarantee fast data transmission?
- A. Unshielded twisted pair.
 - B. Shielded twisted pair.
 - C. Coaxial cable.
 - D. Fibre optical cabling.
19. A good website is one that:
- A. Has many images.
 - B. Has good download speed.
 - C. Is hosted on the WWW servers.

D. Contains related content.

20. A sets a range of data that is allowable in a database field.

- A. validation text
- B. required
- C. validation rule
- D. caption

SECTION B: (60 MARKS)

Fill in the spaces provided for your responses to questions 21 to 26.

This section is compulsory.

21. (a). Outline **three** characteristics of a good computer. (03 marks)

.....

(b). State **two** features of second generation computers. (02 marks)

.....

(c). Write the following abbreviations in full:

(i). **GIGO** (01 mark)

.....

(ii). **MIPS** (01 mark)

.....

(d). Give **two** advantages of using cyber storage locations. (02 marks)

.....

(e). State **one** crime committed using a computer as a tool. (01 mark)

.....

22. (a). Give **two** ways of classifying hardware devices. (02 marks)

.....

(b). Gusango had data of about 4.3 GB. State **two** storage media he will need to store the work. (02 marks)

.....

(c). (i). State **one** feature of non impact printers. (01 mark)

.....

(ii). Give **two** components that make up the CPU. (02 marks)

.....

(d). State **two** reasons for re-installing computer's software. (02 marks)

.....

.....

(e). Define the term **system start up**. (01 mark)

.....

.....

23. (a). Define the following terms in relation to computer spreadsheets.

(i). **Cell**. (01 mark)

.....

.....

(ii). **Workbook**. (01 mark)

.....

.....

(b). State the difference between a **relative** and an **absolute** cell reference. (02 marks)

.....

.....

(c). Give **one** function needed to perform the tasks below:

(i). **Positioning** students. (01 mark)

.....

.....

(ii). **Set remarks** using a set of conditions. (01 mark)

.....

.....

(d). State **two** data types used in database program. (02 mark)

.....

.....

(e). Explain the following field properties:

(i). **Input mask**. (01 mark)

.....

.....

(ii). **Validation text**. (01 mark)

.....

.....

24. (a). (i). Define a **network protocol**. (01 mark)

.....

.....

(ii). What is the role of an **IP address** in a computer. (02 marks)

.....

.....

(b). Distinguish between a **half** and **full** duplex. (02 marks)

.....

 (c). State any **two** practical topologies that one can choose to set in a computer laboratory. (02 marks)

.....
 (d). (i). Give **two** advantages of using an e-mail as a mode of communication. (02 marks)

.....
 (ii). State **one** feature of a coaxial cable. (01 mark)

25. (a). State **two** activities that can be carried out using a placeholder in a presentation program. (02 marks)

.....
 (b). Describe the following presentations' terms:

(i). **Transition looping.** (01 mark)

.....
 (ii). **Slide sorter view.** (01 mark)

.....
 (iii). **Slide show.** (01 mark)

.....
 (c). (i). Give **two** ways text in a word processor can be emphasised. (02 marks)

.....
 (ii). State **two** items that can be inserted in a footer section of a page. (02 marks)

.....
 (d). What is the use of **word-wrap** in a word processor. (01 mark)

26. (a). (i). Define an **application program.** (01 mark)

.....
 (ii). State **two** factors to consider before buying a computer program. (02 marks)

(b). Outline **two** forms software piracy may take. (02 marks)

.....

(c). Give **two** features of a good programming language. (02 marks)

.....

(d). Write a symbol or statement that does the following activities:

(i). Declaring a variable that is an integer. (01 mark)

.....

(ii). Terminating a programming statement. (01 mark)

.....

SECTION C: (20 MARKS)

*Attempt only **one** question from this section.*

27. (a). Musoke has been working on his computer for the last three months. Of late, the keyboard and mouse have stopped to respond. After replacing them, still they could not work.

(i). Identify **four** possible causes of the above scenario. (04 marks)

(ii). Explain **two** activities that need to be done to have his keyboard and mouse work well. (04 marks)

(b). Write a checklist of **two** items you need to have in a computer laboratory in order to install a hardware device. (04 marks)

(c). Create a list of **four** hardware devices you would need to begin a basic computer training school in your village and show how each would be used. (08 marks)

28. Write a computer program to return the first ten counting numbers. (20 marks)

29. (a). Write a checklist of **five** system specifications you would need your computer to have before beginning a Secretarial Bureau in your village. (10 marks)

(c). Mutaka's internet cafe offers Internet to the community. Sometimes, the cafe is locked due to slow download speed.

(i). Explain **four** possible causes of the above challenge Mutaka's internet cafe faces. (04 marks)

(ii). Describe possible solutions to the only three challenges above. (06 marks)