**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ADM NO: \_\_\_\_\_\_\_\_\_\_\_CLASS: \_\_\_\_\_\_\_\_\_\_**

**DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SIGN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**COMPUTER**

**FORM: FOUR**

**TERM 1 2025**

**OPENER EXAMINATION**

**INSTRUCTIONS: *Answer all the Questions* TIME: 1 HR 30 MIN**

**SECTION A (Answer all questions in this section)**

1. State the technology used in the following computer generations (2 marks)

|  |  |
| --- | --- |
| GENERATION | TECHNOLOGY USED |
| First generation |  |
| Second generation |  |
| Third generation |  |
| Fourth generation |  |

1. State **three** ways in which computers have been used to fight the spread of corona virus in Kenya. (3 marks)

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1. State and explain **two** types of booting in computer. (2 marks)

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1. Explain the term “log on” as applied in internet (2 marks)

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1. (a) What is disk formatting? (1 mark)

………………………………………………………………………..…………………………………………………………………………………………………………………………….…………………………………….

 (b) State **two** reasons for disk formatting (2 marks) ……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

6 Name the **three** files commonly used in mail merge. (3 marks)

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. State **three** reasons why an organisation may opt to develop its own software in-house rather than buy off-the-shelf software (3marks)

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8. A particular computer stores numbers in a single 8-bit word. How would it represent? 0.312510 (3 marks)

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1. (a) What is a firewall? (1 mark)

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 (b) State the **two** reasons that may have necessitated disabling of the firewall. (2 marks)

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1. Differentiate between absolute and relative cell references. (2 Marks)

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1. Bentley Micro finance organization has offices in Kericho and Nairobi connected into a network. The management is convinced that someone is illegally gaining access to the data in their computers. State **three** ways the company can overcome this problem. (3marks)

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1. The following worksheet represents the number of litres of milk produced by different cows’ species at Kajiado Ranch Ltd.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| s/no | A | B | C | D | E |
| 1 | Month | Friesian | Ayrshire | Guernsey |  |
| 2 | Jan | 70 | 80 | 65 |  |
| 3 | Feb | 120 | 62 | 75 |  |
| 4 | Mar | 110 | 65 | 45 |  |
| 5 | Apr | 70 | 45 | 60 |  |
| 6 |  |  |  |  |  |

 The cost of each litre of milk is Kshs.30/=. This amount is typed in cell B10

1. Write a function using absolute referencing that will calculate the total number of litres of Friesian in all months (2 marks)

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1. Write a formulae that can be typed in cell E2 and then be copied down to obtain monthly sales of milk. (1 mark)

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1. Identify the data type in cell C1 and cell D3 (1 mark)

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1. State **three** main types of looping control structures as used in programming. (3 marks)

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1. Outline **two** advantages of wireless media to the school (2 marks)

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1. State the functions of the following keys on the computer keyboard:

 (a) Backspace (2 mark)

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 (b) Tab key (2) mark)

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**SECTION B**

**Answer question 16 and any other THREE questions from this section in the spaces provided**

1. Define the following terms as used in programming.(8 mks)
2. Assembler
3. Interpreter
4. Compiler
5. Translator

e) List and explain **seven** stages of Program development Life Cycle in their logical order (7 marks)

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