**COMPUTER SCIENCE - GRADE 7 EXAMS TERM 1 2023**

**COMPUTER SCIENCE 30 marks**

1. Explain the following terms used in computer science. (3mks)
	1. Data
	2. Information
	3. Data processing
2. The diagram shown below is the data processing cycle. Use it to answer the following questions.

	1. Complete the diagram by showing the flow data and information using arrows. (5mks)
	2. What happens at the stage labeled X? (2mks)
3. Which of the following is **not** a characteristic of computers?   (2mks)
	1. Diligence
	2. Versatility
	3. Thinking
	4. Speed
4. Erick at Tusome Junior Secondary was asked by his teacher to name four advantages of using computers and he listed them as shown below. Which one is not? (1mk)
	1. Computers perform tasks at a high speed.
	2. Computers have the ability to do more than one task at a time.
	3. Computers are realiable.
	4. Computers can cause health issues.
5. Write down **three** disadvantages of using computers. (3marks)
6. Match the following areas to their computer applications. (4mks)

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| **Application area** | **Use of computer** |
|  Education |  Supporting online banking and mobile banking. |
|  Home |  In supermarkets to record goods bought, their prices and maintain record. |
|  Banking |  Used for entertainment. |
|  Business |  For keeping and maintaining records of students and staff. |

1. What is the name of the first mechanical calculating device? (2mks)
2. Give an example of a computer developed in the following evolution stages. (3mks)
	1. Mechanical era
	2. Electromechanical era
	3. Digital era
3. Name the main electronic component that was used by computers in the following generations. (4mks).
	1. First generation.
	2. Second generation.
	3. Third generation.
	4. Fourth generation.
4. Among the **five** generations of computers, which one continues to evolve? (1mk)

**MARKING SCHEME**

1. 1. * Data are raw facts that have not been processed.
		* Data are the meaningless facts that have not been processed
	2. This is the result of the processed data.
	3. This is the conversion of data into information.
2. 1. Mark the individual arrows . if one arrow is wrong, the whole diagram labelled is wrong
	2. Processing
3. C
4. D
5. 1. Computers work at high speed
	2. Computers are reliable
	3. Computers have storage to store data and information for future reference
6.

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| **Application area** | **Use of computer** |
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1. Pascaline
2. 1. abacus, slide ru;e, Napier's bone, pascaline
	2. tabulating machine
	Atanasoff - berry computer, ABC.
	3. Personal computer, desktop computer, laptops, smartphones
3. 1. Vacuum tubes
	2. Translators
	3. Integrated circuits
	4. Large scale integrated circuits
4. 5th generation