**NAME: ………………………………..………………………….…………**

**ADMIN NO: …….….…**

**CLASS: …………….…**

**Kenya Certificate of Secondary Education**

**FORM *ONE* COMPUTER STUDIES**

**TERM TWO 2015**

**TIME: 2 HOURS TOTAL 100 MARKS**

**INSTRUCTIONS :**

* Write your Name and Admission Number in the spaces provided.
* Answer **ALL**the questions.
* **This paper consists of 8 printed pages. Students should check the question paper to ensure that allthe papers are printed as indicated and no questions are missing.**

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**Q1.**

1. Give two definitions of a computer. (2 marks)

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1. State two differences between data and information. (4 marks)

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1. What is a computer system? (2 marks)

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d) State the components of a computer system and give an example of each (3 marks)

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Q 2.

1. State any **four**  different parts that make up a computer (2 marks)

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1. Briefly explain the emerging trends in micro computer technology in relation to size (1 mark)

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1. Explain **four** factors to be considered when preparing a computer laboratory (4marks)

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1. Explain the functions performed by each of the following central processing units.
2. Control unit (2 marks)

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1. Main memory (2 marks)

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1. System clock (2 marks)

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1. Arithmetic and logic unit (2 marks)

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**Q3**. a) Give an example of the following:

1. Keying device (1 mark)

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1. Pointing device (1 mark)

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1. Scanning device (1 mark)

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b) Distinguish between:

1. impact and non impact printers (2 marks)

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1. MICR and OMR (2 marks)

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1. Microcomputer and microprocessor (2 marks)

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Q4.

a) State**three** functions performed by the CPU (3marks)

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b) List **four** techniques of using a mouse. (4marks)

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c)

1. Write the acronym BIOS in full (1mark)

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1. What is the purpose of BIOS in a computer system? (1mark)

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1. State any**two** functions of a UPS. (2marks)

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Q5.

a) Explain the purpose of the following types of special memories.

(i) Buffers (2marks)

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(ii) Cache memory (2marks)

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1. Registers (2 marks)

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b) Explain **two** differences between Random Access Memory and Read Only Memory(4 marks)

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1. Draw a well labeled block diagram showing the functional organization of the CPU.

(6marks)

Q6.

1. Explain the **three** types of buses in a computer system (6marks)

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Q7.

1. State **two** differences between third generation computers and fourth generation computers in terms of technology and memory used. (4 marks)

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1. Distinguish between an accumulator and an address register. (2marks)

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1. Explain the main difference between Gas Plasma Display and liquid Crystal display monitors. (2marks)

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**Q8**.

1. State **two** ways in which computers are used in law enforcement. (2marks)

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1. State **two** disadvantages of magnetic tapes over compact disks (2marks)

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