NAME:……INDEX NO:…...……..

SCHOOL……...

451/1
COMPUTER STUDIES
PAPER 1
THEORY
JULY / AUGUST 2008
TIME 2 ½ HOUR.

KERICHO/KIPKELION DISTRICTS MOCK EXAMINATION
Kenya Certificate of Secondary Education 2008

COMPUTER STUDIES
PAPER 1
THEORY
JULY /AUGUST 2008

INSTRUCTION TO CANDIDATES

- Write your name and index number in the spaces provided above
- *This paper consists of **two** sections **A** and **B**.*
- *Answer **ALL** questions in section **A**.*
- *.Answer question 16 and any other THREE questions from section B.*
- *All answers should be written in the spaces provided on the question paper.*

For Examiners Use Only

Section	Questions	Candidates Score
A	1-15	
B	16	
	17	
	18	
	19	
	20	
	TOTAL SCORE	

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SECTION A (40 MARKS)

1. **Define** the following word as used in computing

   a) Analogue data (1mk)

   ……..…

   Digital data (1mk)

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2. **Outline three** advantages of having a network in your work area (3mks)

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   ……..……

   Differentiate between real data type and an integer data type as applied in programming (1mk)

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3. **State four** functions of an uninterruptible power supply (2mks)

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4. **Describe** the meaning of the following words as used in information communication technology (3mks)

   i) Protocol

   ……..…

   ……..……

   ii) Gateway

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   iii) Bandwidth

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5. **List down four** features of a user friendly program (2mks)

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6. **Give four** application areas of a computer output on microforms (4mks)

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7. Majority of people withdraw cash by using A.T.M. **List down three** input and output devices of an A.T.M machine at pesa - point in our country

i) Input devices (1½mks)

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ii) Output devices (1½mks)

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8. **Distinguish** between a compiler and interpreter (2mks)

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9. **Explain two** reasons why computer uses binary numbers in data representation.

(2mks)

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10. **List four** types of courses in information communication technology offered at degree level in Kenya (2mks)

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11. **State four** responsibilities of computer trainer (4mks)

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12. **Differentiate** between filtering and sorting data as used in spreadsheet. (2mks)

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Convert the following into binary

(i) $1\ C\ D_{16}$ (2mks)

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(ii) 150_{10} (2mks)

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13. (a) By defining the following abbreviations **write down** what they stand for in full. (2mks)

i) RISC

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POST

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Distinguish between cold booting and warm booting as used in computer. (2mks)

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SECTION B (60 MARKS)

Answer question 16 and ANY other THREE Questions from the section

14.

a) **Outline two advantages** and **one disadvantages** of low –level programming language (3mks)

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b) By use of a flow chart diagram show the process of reading any amount in dollars and convert it into Ksh. Write a program code using high level language. The display should be Kenya shillings and cents. Exchange rate Ksh. 65 to 1 dollar. (12 mks)

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15. a) **Give four** advantages of a computerized filing system. (4mks)

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b) **Briefly explain** the **three** elements that make a computer file (6mks)

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c) **Write short** descriptions of the following computer processing files. (3mks)

i) Master file

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……..……

ii) Reference file

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……..……

iii) Back- up file

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d) **Distinguish** between sequential and serial file organization methods (2mks)

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16. (a) **Define** what virtual reality (V.R) means (2mks)

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(b) **List five** application areas of a virtual reality (5mks)

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Give five reasons why an industry may opt to use robot (5mks)

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(c) **List** the four major interactive sensory parts of virtual reality equipment. (2mks)

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(d) **Define** the word robot (1mk)

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17. (a) By using a well labelled diagram explain on how the abacus machine was used for counting numbers.

i) Diagram (5mks)

ii) Explanation (5mks)

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(b) **State five** characteristics of the third generation computers (5mks)

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18. (a) **Give five** provisions in Kenya laws in governing and protecting our information (5mks)

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(b) **Identify** and **explain four** security threats on ICT (8mks)

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(c) **List four** features of Electronic mail (2mks)

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