

NAME:INDEX NO:.....

SCHOOL:

CANDIDATE'S SIGNATURE.....

DATE:.....

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

BOMET DISTRICT 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	

This paper consists of 11 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing.

SECTION A 40 MARKS

Answer all the questions in this section in the spaces provided

1. The computer processing cycle involves a four step process **List them** (2mks)

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2. The CPU consists of control unit and arithmetic logic unit **State the functions** of the two units
(2mks)

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3. **Name and explain** the two types of primary memory. (3mks)

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4. **State the functions** of the following keys in a computer key board

(i) Pause (1mk)

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(ii) Function keys (1mk)

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5. (i) **Explain** the importance of microphones combined with speech recognition device such as voice output. (2mks)

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(ii) **State the main** disadvantage of the above method of data input. (2mks)

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6. The most popular type of electronic data storage currently is magnetic disk storage such as hard disk or Winchester disk. **Give reason** as to why they are popular (2mks)

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7. **Outline two** advantages of hard disk over floppy disk. (2mks)

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8. One stage of system development is system testing. **Outline** the advantages of this stage before implementation. (1mk)

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9. (a) **Convert** 111.011_2 to a decimal notation. (2mks)

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(b) **State one** advantage of using binary number system in computers. (1mk)

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10. **State one function** of each of the following terms (3mks)

i) Buffer

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ii) An accumulator

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iii) Cache memory

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11. **Explain any two** factors that should be put into consideration during output design.

(2mks)

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12. (i) **Define the term** graphic and give two examples (2mks)

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(ii) **List any two** sources of graphic that can be used in Microsoft word. (1mk)

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13. **State the functions** of the following logical functions as used in excel

a) If.....

(1mk)

b) Count If.....

(1mk)

c) Sum If

(1mk)

14.

(i) **Why** would one prefer to use a form for data input rather than entering data directly into a table. (2mks)

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(ii) When using wizard to create a form, **list four** forms layout that you can use. (2mks)

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15. **Distinguish between** the following terms as used in DTP (4mks)

(i) Tracking and kerning

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(ii) Stroke and fill

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SECTION B (60mks)

Answer question 16 and any other three questions from this section

16. (a) **Define** the following terms

(i) Structured programming (1mk)

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(ii) Constants (1mk)

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(iii) Variable (1mk)

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(b) **Distinguish between** dummy data and real data as used in system testing (2mks)

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(c) Mr Lugeno borrowed a loan of 200,000 from Ndege chai cooperative society at a rate of 10% payable in 2 years flat rate. **Draw** a flow chart that can be used to develop a computer program that will keep track of monthly repayments (5mks)

(d) **Write** the pseudocode for the flowchart in question (c) above (5mks)

17. (a) **Define** the following computer crimes

(i) Piracy

(1mk)

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(ii) Industrial espionage (1mk)

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(b) **Explain two ways** of protecting data and information against unauthorized access (4mks)

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(c) **Explain two functions** of network operating system. (4mks)

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(d) **Differentiate between** a repeater and a router as used in computer networking. (2mks)

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(e) **List down three** duties of a computer trainer (3mks)

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18. (a) **Explain any two** types of human computer Interface. (4mks)

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(b) **State four** basic requirements of a standard computer laboratory (4mks)

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(c) **Out line three types** of job opportunities that are available in the computing field (3mks)

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(d)(i) **Differentiate between** video conferencing and telecommuting as used in communicating system (2mks)

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(ii) **Highlight two** advantages of telecommuting (2mks)

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19. (a) **Distinguish between** the following

(i) Sequential and serial file organization methods. (2mks)

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(ii) Random and indexed sequential file organization methods (2mks)

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(b) **Explain the following** types of data processing modes

i) Batch processing (2mks)

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ii) Real time processing (2mks)

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(c) **Define** the following terms

i) Undo (1mk)

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ii) Redo (1mk)

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(d) **State three** breakthrough of Information Communication Technology (ICT) in health care

(3mks)

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(e) **List any two** under graduate programs offered in public universities in Kenya 2mks)

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20. (a) **Draw** a flowchart showing;

i) The WHILE loop (2mks)

ii) The REPEAT.....UNTIL loop (2mks)

(b) **Differentiate between** the following terms

i) Information system and system (2mks)

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ii) Hard system and soft system (2mks)

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(c) **List** the seven stages of System Development Cycle (SDLC) (7mks)

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