

NAME ..... INDEX NO

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SCHOOL

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451/1

COMPUTER STUDIES

PAPER 1

(THEORY)

JULY/AUGUST 2008

TIME 2 ½ HOURS

## LARGER BUNGOMA DISTRICT MOCK EXAMINATION Kenya Certificate of Secondary Education (KCSE) 2008

451/1

COMPUTER STUDIES

PAPER 1

JULY /AUGUST 2008

### INSTRUCTIONS TO CANDIDATES:

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

### For Official Use

SECTION	QUESTIONS SCORE
A	1-15
B	16
	17
	18
	19
	20
<b>Total Marks</b>	

### SECTION A (40 MARKS)

☺ **Answer all the questions in this section.**

1. **State one** main reason why typing tutor is recommended to be used by computer students.

(1mk)

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2. **Give three** main ways of classifying computers.

(1½mks)

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3. Peter was sent to buy computers for the students' laboratory. He was supposed to take into account the following factors.

- Processor speed
- Memory capacity
- Compatibility

**Give three** main reasons for taking into account the above factors

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4. Basic computer setup and cabling is a very important concept to be taught in a computer class.

**Give two** reasons to support the above concept.

(2mks)

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5. **State any two** factors to be considered when selecting hard copy output devices. (2mks)

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6. **State four** benefits of using a computer in a school store. (2mks)

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7. **Define** the following terms as used in word processing (4mks)

a) Pagination

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b) Moving-

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c) Indenting

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d) margins

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8. You have been asked to change your password **state** a precaution you need to take in order to avoid each of the following. (2mks)

a) Piracy

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b) Forgetting the password

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9. (a) **State two** advantages of using a questionnaire for gathering information. (2mks)

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(b) **Give three** factors to consider when designing the output in program development. (2mks)

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10. (a) **Differentiate** between pure binary and BCD code as used in data representation. (1mk)

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(b) **Convert**  $2D16_{16}$  directly to binary. (2mks)

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11. **State** the stages of system development in their logical sequence (3½mks)

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12. **Explain any two** cultural effects as a result of use of ICT. (4mks)

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13. **Name three** responsibilities that are carried out by network support professionals. (3mks)

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14. **Give three** software requirements mandatory in a computer lab. (3mks)

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15. A school intends to set-up e-mail. **List 4** activities likely to be provided by mails e-mail facility.

(2mks)

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## SECTION B (60 MARKS)

☺ **Answer question 16 and any other three questions from this section.**

16. The gross salary of employees of **Becam Technology Centre** is based on basic salary; the basic salary is based on grade and additional benefits as follows, a. Employees who have worked for more than 5 years receive an additional pay of 5 % to their basic salary, b. Monthly commissions are based on monthly sale of computers and accessories profit as follows

Monthly sales Profit	Commission Rate (%)
Above 100,000	20
Between 50,000 and 100,000	15
Between 0 and 50,000	5
Below 0	Deduction 5% from their basic.

- (a). **Draw** a flow chart that would be used to calculate the gross salary. (14mks)

- (b) **Write** down the output if the employee worked for ten years, with a grade that earns Kshs. 10,000 and he made a profit of 55,000. (1mk)

17. (a) **Define** the following terms as used in spreadsheet. (4mks)

i. Absolute referencing

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ii. Value

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iii. Worksheet

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iv. Workbook

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(b) **State 6** advantages of using spreadsheet over manual spreadsheets (6mks)

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(c) (i) **Name four** types of database models (2mks)

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(ii) **Give three** parts of a report layout in design view. (3mks)

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18. (a) **State three** major types of Networks. (3mks)

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(b) **Give** the full forms of the following acronyms (2mks)

(i) UTP -

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(ii) BNC -

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(iii) RJ-45 -

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(iv) EMI -

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(c). (i) **List 5** advantages of fiber optic cables. (5mks)

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(ii) **List two** disadvantages of fiber optics (2mks)

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(d) **State three** types of hubs (3mks)

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19. (a) **Describe three** different ways a computer may store negative numbers. (6mks)

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(b) **Give** the acronym name for the following (3mks)

i) BCD

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ii) ASCII

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iii) EBCDIC –

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c) State and describe any **two** areas of Artificial Intelligence (2mks)

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d) **What** is Virtual reality? (1mk)

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e) List **three** components of a Virtual reality gear. (3mks)

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20. a) **Define** the term operating system (1mk)

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b) **Describe any four** functions of the operating system (4mks)

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c) **Explain** how one can manage his/her disks using windows. (6mks)

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d) **Explain** with the use of Dos how one can create a text file in C: called John, with text Welcome Home. (4mks)

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