

NAME: INDEX NO:

SCHOOL: CANDIDATE'S SIGNATURE:

DATE :

451/1

COMPUTER STUDIES

PAPER 1

(THEORY)

JULY / AUGUST 2012

TIME: 2½ HOURS

NANDI SOUTH, NANDI EAST AND TINDERET DISTRICTS JOINT EVALUATION TEST 2013

Kenya Certificate of Secondary Education (K.C.S.E.)

COMPUTER STUDIES

PAPER 1

(THEORY)

TIME: 2½ HRS.

INSTRUCTIONS TO CANDIDATES:

- (a) Write your name and Index number in the spaces provided.
- (b) Sign and write the date of examination in the spaces provided.
- (c) Answer ALL questions in the spaces provided.

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	CANDIDATE'S SCORE
A	1 - 15	
B	16	
	17	
	18	
	19	
	20	
TOTAL SCORE		

SECTION A (40 MARKS)

Answer all questions in this section

1. State **two** characteristics of microcomputers. (2mks)

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2. State the functions of the following keyboard key combinations:

- (a) CTRL + ESC:.....
(b) ALT + F4:.....
(c) CTRL + ALT + DEL:.....

3. Explain **two** ways through which data loss can be prevented on magnetic media especially hard disk. (2mks)

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4. Explain **portability** with regard to software and hardware factors to consider when selecting a computer. (2mks)

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5. (a) Explain each of the following formatting features in Microsoft Word: (2mks)

- (i) Drop Cap:.....
(ii) Subscript:.....

- (b) State any **two** paragraph formatting features in Microsoft Word. (2mks)

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6. List any **three** internet connectivity requirements. (3mks)

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7. (a) State and explain **one key** control measure against computer viruses. (2mks)

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(b) State **two** control measures against an unauthorized access. (2mks)

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8. (a) Use place value method to convert 25_{10} into its binary equivalent. (1mk)

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(b) Using two's complements work out $9_{10} - 11_{10}$ giving your answer in binary. (2mks)

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9. Describe Data processing cycle. (3mks)

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10. Explain each of the following programming terms. (2mks)

(a) Source code

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(b) Translator

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11. (a) Outline **two** purposes of computer networks. (2mks)

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(b) State **one** limitation of computer networks. (1mk)

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12. List **three** career opportunities in ICT. (3mks)

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13. State **two** ways in which computers are used in law enforcement. (2mks)

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14. Outline **two** effects of ICT on employment. (2mks)

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15. State and explain the function of two special purpose memories. (2mks)

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SECTION B. (60 MARKS)

Answer question 16 and any other three questions

16. Using both a flowchart and pseudo code, create an algorithm for a program to be used to enter two numbers x and y. The program should display Quotient: x/y if the value of y is NOT zero, otherwise display message error division by zero.

(a) Pseudo code (7mks)

(b) Flowchart (8mks)

17 (a) (i) Outline two uses of folders. (2mks)

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(ii) Name any two types of files available in a computer. (2mks)

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(b) Explain each of the following disk management terms: (4mks)

(i) Formatting

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(ii) Defragmentation

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(c) Outline the procedure for:

(i) Creating a folder on the Desktop. (3mks)

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(ii) Copying a file from My Documents to the Desktop. (4mks)

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18 (a) Define each of the following Data Communication terms: (4mks)

(i) Attenuation:.....

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(ii) Simplex:.....

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(iii) Bandwidth:.....

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(iv) Signal modulation:.....

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(v) Data signal:.....

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(b) Describe the following Network Topologies.

(i) Star

(3½ mks)

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(ii) Bus

(3½ mks)

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(c) List three types of computer networks.

(3mks)

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19 (a) State and explain **two** fact finding methods.

(4mks)

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(b) Describe 'system implementation' with regard to system development life cycle.

(5mks)

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(c) State and explain any **two** types of system documentation.

(2mks)

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20 (a) Show the procedure for creating a Table in Microsoft Word.

(4mks)

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(b) How do you delete a row in an existing Table?

(3mks)

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c) Show the procedure for merging cells when using Microsoft Word.

(3mks)

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d) How do you place a picture in an existing Microsoft Word document?

(5mks)

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