

Name.....

Index No.

School

451/1
COMPUTER STUDIES
PAPER 1
JULY / AUGUST 2007

NAROK DISTRICT MOCK EXAMINATION – 2007
Kenya Certificate Of Secondary Education (KCSE)

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COMPUTER STUDIES
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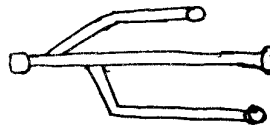
Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing

1. What do you understand by the following types of memory?
 - i. Mask read only memory
 - ii. Erasable programmable read only memory (**EPR**OM)(2mks)
2. State one function of the central processing unit (1mk)
3. a) what is a low level programming language. (1mk)
b) How does it differ from a high level programming language. (1mk)
4. a) State two advantages of voice/speech input? (2mks)
b) List down two common ports on a computer system. (2mks)
5. a) What is the difference between character based operating system and graphical user interface operating system (2mks)
b) State two categories of input devices (2mks)
6. List down two factors to be considered when selecting an input device (2mks)
7. List down at least two precaution necessary in a computer laboratory (2mks)
8. The diagram bellow shows coded data that could be input into a computer



- a) What is the name of the above method of input (1 mk)
- b) Where would the above method of input be applied? (1 mk)
- c) For the application you have given in the above question, state two items of information this type of input may represent. (2 Mks)
9. a) Define the term variables as used in programming (1mk)
b) Explain why variables are important in a programme (2mks)
10. Differentiate between baseband and broadband signals as applied to data transmission (2mks)
11. By using two compliment work out $31_{10} - 17_{10}$ in binary form. Show your calculations clearly. (2mks)
12. Write brief notes to the following type of errors

- i. Algorithmic errors.
 - ii). Transposition errors (2mks)
- 13 What is an Internet Service Provider (*ISP*) (2mks)
- 14 a) What is word wrap as used in word processing (1 mk)
- b) List down examples of word processing packages in the market today. (2mks)
- 15 a) what are the characteristics of (ROM) (2mks)
- b) The diagram below is of a common port in a computer system



- i. What is the name of the port shown above (1 mk)
- ii. What are some of the examples of devices that can be connected to the above port? (2mks)

SECTION B

Answer question 16 and any other three questions from this section in the Answer sheet provided.

- 16 a) Define the terminologies;-
- i) Source code
 - ii) Object code (4mks)
- b) With an aid of a pseudocode and flow chart, write a computer program that can be used to compare the values of two numbers and print the largest number. (11 mks)
- 17 a) State any three reasons why people may resist the introduction of computers at their place of work (3mks)
- b) Outline other threats facing computers in this modern world. (3mks)
- c) State four factors to consider when purchasing a memory for your computer. (4mks)
- d) State three salient features of a computer output (3mks)
- e) State the function of the following *MSDOS* commands
- i) REN (1mk)
 - ii) DIR/P (1mk)

- 18) a) Distinguish between the following sets of terminologies used in spreadsheets
- i) Work sheet and work book . (2mks)
 - ii) Filtering and sorting (2mks)
- b) State one way in which a user may reverse the last action taken in a spreadsheet package. (1mk)
- c) The following is the sample of a payroll. The worksheet row and column heading are marked 1,2,3.... and A. B, C.... respectively

	A	B	C	D	E	F	G	H
1	NAME	HRS WORKED	PAY PER HR	BASIC PAY	ALLOWANCE	GROSS PAY	TAX DEDUCTED	NET PAY
2	KORIR	12	1500					
3	ATIENO	28	650					
4	MUTIZO	36	640					
5	ASHA	30	900					
6	MULI	18	550					
7	WANJIKO	22.5	500					
8	WANGARI	24.5	250					
9	OLESAN	17	180					
10	MOSES	33	700					

Use the following expressions to answer the questions that follow

- **BASIC PAY** = hrs marked X pay per hr
- **ALLOWANCES** are allocated at 10% basic pay
- **CROSS PAY** basic pay + allowance
- **TAX** deducted are calculated at 20% gross pay
- **NET PAY** gross pay-tax deducted

Write a formulae using cell reference for the following:

- 1) D2
- 2) E4
- 3) F10
- 4) G7
- 5) H5

(5mks)

- d) i) State the ways of editing the contents of a cell in Microsoft excel. (3mks)

- ii) State two of how information and communication technology (ict) can be used to reduce the spread of **HIV/AIDS** (2mks)

- 19 i) with the aid of a pseudocode and a flow chart design an algorithm that

- i. Prompt the user to enter two numbers x and y
 - ii) Divide X and Y and display the quotient. However if the value of Y is 0, the program should display an error message "Error division by zero" (10mks)
 - iii) State the major components found in the system unit (*CPU*) (4mks)
 - iv) What is programming (1 mk)
- 20 a) With the aid of a diagram explain the following network typologies
- i) Ring topology.
 - ii) Bus topology,
 - iii) Star topology (6mks)
- b) Define the following terminologies in relation to networking.
- i) Crosstalk
 - ii Noise
 - iii) Attenuation
 - iv) Frequency (4mks)
- c) State two advantages of and two disadvantages of wireless communication (4mks)
- d) List down one major advantage of networking. (1mrk)