NAME:………………………………………………ADM NO …………………..…..CLASS……..…

451/1
COMPUTER STUDIES
PAPER 1
FORM 4 EXAMINATION
2½ HOURS
MURANG'A COUNTY MOCK

END OF TERM II EXAMINATION
QUESTION PAPER

451/1
COMPUTER STUDIES
PAPER 1
FORM 4 EXAMINATION

<u>INSTRUCTIONS TO CANDIDATES</u>

- ❖ *This paper consists of **2** sections **A** and **B**.*

- ❖ *Answer all the questions in sections **A***

- ❖ *Answer question **16** and any other **three** questions from section **B***

For Examiners Use Only

Section	Question	Score
A	1 - 15	
B	16	
	17	
	18	
	19	
	20	
	Total marks	

SECTION A (40 MARKS)

1. State two practices to be observed in order to ensure the safety of the computer user
(2mks)

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2. State the function of the following keys on the computer key board

(2mks)

(a) Insert…………………………………………………………………………………………

………………………………………………………………………………………………

(b) Delete…………………………………………………………………………………………

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3. Name three responsibilities that are carried out by a network administration

(3mks)

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4. List and describe three guidelines that should be followed when conducting an

interview during information gathering   (3mks)

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5. (a) Define portability as used in software selection

(1mk)

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(b) List four ways of acquiring software in an organization

(2mks)

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(a) Subtract 110_2 from 11010_2

(1mk)

(b) Find the sum of binary number 101.101_2 and 110.100_2

(1mk)

(c) Convert binary number 11010110.1001_2 into octal number.

(1mk)

6. List three uses of DVDs

    (3mks)

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    ....

7. State the function of each of the following

    (a) Network Interface Card

(1mk)
    ....
    (b) Modem

(1mk)
    ....
    (c) Repeaters

(1mk)
    ....

8. How does an operating system manage computer memory

    (2mks)

    ....
    ....

9. List four factors to be considered when purchasing an operating system

    (2mks)

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....(2mks.)

10.   Write a PSEUDO CODE to compute the area of a circle
       (2mks)

11.   (a) List three ways by which you can provide a common link or
       relationship between the tables in a database software
                            (3mks)

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       (b) What is referential integrity
(1mk)
       ....

12.   List four types of publications that ca be designed using DTP software
       (2mks)

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13.   (a) List four stages in data collection
       (2mks)

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       (b) What is meant by the following   (2mks)

(i) Reference file

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(ii) Report

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14. Explain the following terms

(2mks)

(a) Computer fraud

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(b) Alteration

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15.   Study the flowchart below and answer the questions that follow.
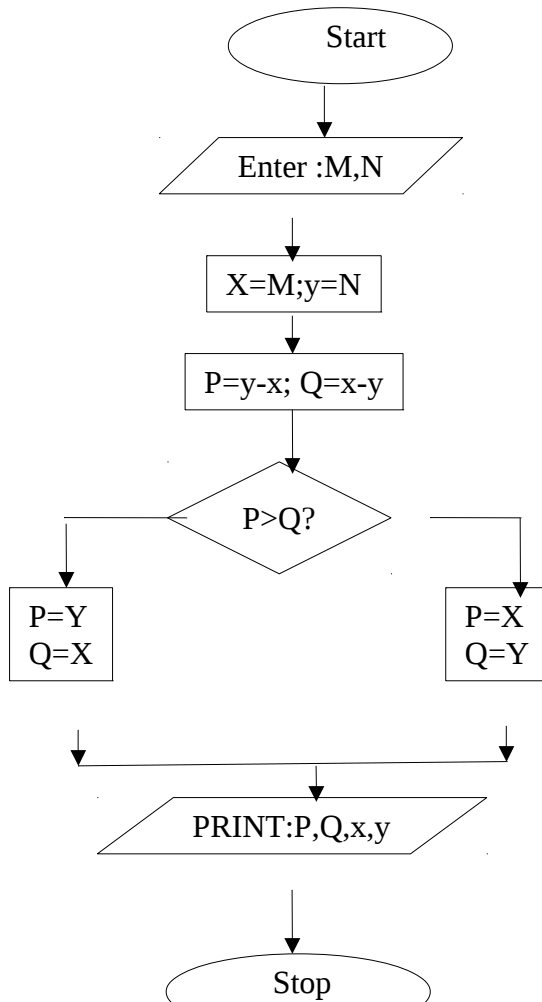
(b) Name the control structure shown in the flow chart   (2mks)

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(c) Assuming the user keys in 8 and 14 when prompted to enter values for M and N respectively, determine the printed values of P,Q,x and y (4mks)

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(d) Write a pseudo code that would be used in place of the flowchart.(9mks)

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16.   (a) List three advantages and three disadvantages of fibre optic cable
(6mks)

Advantages

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Disadvantages

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(b) Describe the following signals and state where each is applied in network communication.

(4mks)

Analog...
....
....

Digital...............
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(e) Name two types of coaxial cables
    (2mks)

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(f) (i) Distinguish between microwave and satellite transmissions   (2mks)

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(ii) Give an example of internet protocol

(1mk)

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17.   The information below is maintained by the sales lady at the school canteen. Study it and answer the questions that follow.

	A	B	C
1	Item	units (kg)	value (ksh)
2	oranges	12	2000
3	mangoes	13	1000
4	tomatoes	12	1400
5	cabbages	15	2500

(a) Describe the basic data types used in this spreadsheet

(4mks)

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(b) Provide a single formula that would be used to

(i)   Count the number of items whole units are equal; to 15   (2mks)

(ii)   Sum the values of items whole units are equal to 12

(2mks)

(c) (i) :List and describe four areas of application of spreadsheets (4mks)

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(ii) Explain data range legend and axis as used in spreadsheet charts
(3mks)

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19. A computer diskette in drive A has folders for MEMOS for an administrator.
Each of these folders is labelled according to the relevant months. The
secretary created the folders for each months memo for each of access. Study
the table below

MEMO 1	MEMO 2	MEMO 3
Warning Lateness Assembly	Inaccuracies Auditing Fraud	Careless talk Inefficient Meeting

(a) Assuming that the secondary was working from the diskette, draw the
corresponding tree structure   (6mks)

(b)(i) The secretary wanted to create a folder to store a memo in Fraud folder.
State the path for that folder
(2mks)

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(ii) Suggest how the secretary can ensure that the work in that diskette is not
spoilt
(1mk)

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(iii) The content of the file is not viewed by any other person apart from her. (1mk)

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(c) (i) List any two devices under the control of the operating system (2mks)

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(ii) Explain how each one of these devices are controlled by the OS

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20.   (a) List and describe four strategies for converting from an old system to a new system (4mks)

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(b) (i) Distinguish between private data and confidential data (2mks)

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(ii) What can be done to stop illegal access to a computer laboratory by unauthorized people (3mks)

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(c) (i) List four areas that would be considered in the requirement specification
(4mks)

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(ii) Name any two areas covered in a feasibility report during system
analysis   and design.
(2mks)

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