



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT) (A Centre of Excellence)

Faculty of Engineering &

Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR DEGREE IN BACHELOR OF ENGINEERING IN CIVIL ENGINEERING (BSC CE)

EIT 4102: FUNDAMENTALS OF COMPUTING

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: OCTOBER 2012 TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination - Answer Booklet This paper consist of FIVE questions Answer question ONE and any other TWO questions Maximum marks for each part of a question are as shown This paper consists of THREE printed pages

SECTION A (COMPULSORY)

Question One (30 marks)

a)	Define network tools.	(2 marks)
b)	Outline THREE key area of concern that network management covers.	(3 marks)
c)	State FIVE key functions of network management	(5 marks)
d)	Distinguish between Network Operating System (NOS) and Client Operating System	(COS) (4 marks)
e)	Name FOUR most common Network Operating Systems.	(2 marks)

f) List FOUR factors that are considered in determining the optimal hardware for servers.

(4 marks)

- g) Outline **TWO** issues that are addressed when making a logical Network design. (4 marks)
- h) Define the following network management terms:
 - i) Operation
 - ii) Administration
 - iii) Maintenance
 - iv) Provisioning

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

- a) (i) Distinguish between formula bar and status bar.
 - (ii) The following Ms. Excel table represents the financial comparison for the month of January for Company 2.

1	Α	B	С
	ITEMS	KSHS	KSHS
2	INCOME	BUDGET	ACTURAL
3	Babysitting Sales	100,000	TRANSACTIONS
4	Furniture Sales	50,000	210,000
5	Salary	14,000	43,000
6	Sales of Feeds	70,000	13,000
7	Miscellaneous	10,000	90,000
8	TOTAL	Q	Т
9	EXPENSES		
10	Clothes	5,000	2,000
11	Lunches	15,000	17,000
12	Entertainment	4,000	7,000
13	TOTAL	R	U
14	Surplus	S	V

- i) Write the formulae and or junction to calculate values in cells: Q, R, S, T, U and V
- ii) Write the formulae to calculate the difference between actual transaction and budget plan. (8 marks)
- iii) Outline the procedure for creating a chart in Ms Excel using chart wizard. (3 marks)
- b) Outline the procedure for creating folders in Ms Excel/Ms Word. (3 marks)

Question Three (20 marks)

- a) (i) Describe **TWO** broad categories of Ms DOS commands giving an example in each case.
 (ii) Using relevant Ms DOS directory commands:
 - Create a directory called MSA POLY in root directory of drive C. This directory contains a sub directory called DEPARTMENTS.
 - The department sub directory contains ELETRICAL, BUILDING, MECHANICAL and COMPUTING sub directories.

(6 marks)

	 Under ELECTRICAL create a sub directory called SECTION which contain POWER, ELECTRONICS, TELECOMMS and CONTROL. Under POWER graate sub directory PSC and under PSC graate subdirectory SUB 	ns directories
	subjects sub directories include MATHS, PHYSICS and DRAWING.	(14 marks)
b)	 (i) While under the sub directory MATHS of Q3(a) (ii) create a file called Maths.txt v following contents 4 + 5 - 4 =9 	with the
	(ii) Copy Maths.txt file to the sub directory DEPARTMENTS, and then remove MAT directory.	THS sub (6 marks)
Qu	uestion Four (20 marks)	
a)	(i) Explain any FIVE services rendered by the internet.(ii) Using your E-main address, state and explain FOUR parts contained in it.	(5 marks)
b) c)	Describe TWO classifications of main memory. Mention any THREE merits of semiconductor memory as compared to core memorie	(4 marks) es. (3 marks)
Qu	estion Five (20 marks)	
a)	 (i) Describe the following main components of central processing unit. I. Control Unit II. Arithmetic Logic Unit III. Primary Memory 	(6 marks)
	 (ii) Describe briefly the following types of memories: I. Cache Memory II. Bubble Memory III. Holographic Memory 	
b)	Core Memory	(8 marks)
c)	Describe any THREE common service programs.	(6 marks)