



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR BACHELOR OF SCIENCE IN INFORMATION
TECHNOLOGY (BSC IT/JAN 2012)

BACHELOR OF TECHNOLOGY IN INFORMATION COMMUNICATION TECHNOLOGY
(BTIT/JAN 2012)

BIT 2103: INTRODUCTION TO COMPUTER APPLICATIONS

EIT 4101: FUNDAMENTALS OF COMPUTING

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: MAY/JUNE 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

This paper consist of **FIVE** questions

Answer any **THREE** questions.

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

Question One

a) (i) Define the following terms:

- Bit
- Modem
- Interface
- Hardware
- Information

(5 marks)

(ii) Describe the following computer generations:-

- 3rd Generation computers
- 4th Generation
- 5th Generation

b) (i) Briefly describe the classifications of analogue computers:

(2 marks)

(ii) Differentiate between a minicomputer and microcomputer

(2 marks)

c) (i) Mention any **FOUR** factors to consider when trying to acquire an application package.

(ii) Mention **TWO** demerits of application packages (6 marks)

c) Briefly describe **TWO** varieties of ROM (2 marks)

Question Two

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 Z.

A	B	C	
1	ITEMS	KSHS	KSHS
2	INCOME	ACTUAL	TRANSACTIONS
	Babysitting	BUDGET	
3	Sales	100,000	210,000
4	Furniture sales	50,000	43,000
5	Salary	14,000	13,000
6	sales of feeds	70,000	90,000
7	Miscellaneous	10,000	-
8	TOTAL	Q	T
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
15			

i) Write the formulae and or function 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)

c) (i) Distinguish between:

- DELETE button and Backspace button
- Menu bar and Task bar

(ii) Outline the procedure of using Thesaurus in Ms Word.

(6 marks)

Question Three

MPUC admits 2,000 students in different courses each semester. The secretary writes admission letters to each student. This exercise takes one month, since the letter of offer contains four pages. Use this information to answer the following questions.

Assuming you have been hired to advise the secretary

i) Propose an approach that would help the secretary generate the letters faster and economically

ii) Outline the steps the secretary would use to generate the letters using the approach you proposed in (i) above (10 marks)

a) Suggest the importance of the following features in document preparation

i) Thesaurus

ii) Spell checkers

iii) Track changes

(6 marks)

b) Suggest **FOUR** page settings a secretary can perform before printing a document (4 marks)

Question Four

a) (i) Explain any **FIVE** services rendered by the Internet (5 marks)

(ii) Using your E-mail address state and explain **FOUR** parts contained in it.

b) Describe **TWO** classifications of Main Memory (4 marks)

c) Mention any **THREE** merits of semiconductor Memory as compared to Core Memories (3 marks)

Question Five

a) (i) Describe the following Main Components of Central Processing Unit:

- Control Unit

- Arithmetic Logic Unit

- Primary Memory

(6 marks)

(ii) Describe briefly the following types of memories:

- Cache Memory

- Bubble Memory

- Holographic Memory

- Core Memory

(8 marks)

b) Describe any **THREE** Common Service Programs