



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

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

Faculty of Engineering &

Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

BACHELOR OF TECHNOLOGY IN INFORMATION COMMUNICATION TECHNOLOGY-

BITI/JAN2012

BIT 2103: INTRODUCTION TO COMPUTER APPLICATIONS EIT 4101: 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 (COMPULSORY)** and any other **TWO** questions Maximum marks for each part of a question are as shown This paper consists of **TWO** printed pages

Question One (Compulsory - 20 marks)

(a) (i) Define the following terms:-

- a) Bit
- b) Modem
- c) Interface
- d) Hardware
- e) Information
- (ii) Describe the following computer generations:
 - a) 3rd Generation computers
 - b) 4th Generation
 - c) 5th Generation

© 2012 - The Mombasa Polytechnic University College

(5 marks)

(3 marks)

Page 1

(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 pack	age.
	(ii)	Mention two Demerits of application packages.	(6 marks)
(d)	Br	iefly describe two varieties of ROM.	(2 marks)

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 Z.

	А	В	С
1	ITEMS	KSHS	KSHS
			ACTURAL
2	INCOME	BUDGET	TRANSACTIONS
3	Babysitting Sales	100,000.00	210,000.00
4	Furniture sales	50,000.00	43,000.00
5	Salary	14,000.00	13,000.00
6	Sales of feeds	70,000	90,000.00
7	Miscellaneous	10,000	-
8	TOTAL	Q	Т
9	EXPENSES		
10	Clothes	5,000.00	2,000.00
11	Lunches	15,000.00	17,000.00
12	Entertainment	4,000.00	7,000.00
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 budge			
(iii) Outline the procedure for creating a chart in MS Excel using chart wizard.	(8marks) (3marks)		
(b) Outline the procedure for creating folders in MS Excel/MS Word.			
(c) (i) Distinguish between:- (I) DELETE button and Backspace button (II) Menu bar and Task bar.			
(ii) Outline the procedure of using Thesaurus in MS Word.	(6marks)		

Question Three (20 marks)

a) 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 in you proposed in (i) above. [10 marks]
- b) Suggest the importance of the following features in document preparation:

	i) ii) iii)	Thesaurus Spell checkers Track Changes [6 marks]
c)	Suggest F	OUR page settings a secretary can perform before printing a docume	nt. [4 marks]
Que	estion Fou	r (20 marks)	
(a) ((i) Explain	any FIVE Services rendered by the Internet.	(5 marks)
(ii) Using y	our E-mail address state and explain FOUR parts contained in it.	(8 marks)
(b) I	Describe T	WO classifications of Main Memory.	(4 marks)
(c) I	Mention a	ny THREE Merits of semiconductor Memory as compared to Core M	lemories.
Que	estion Five	e (20 marks)	(S IIIdrks)
(a)	(i) Desc (I) ((II) A (III)	ribe the following Main Components of Central Processing Unit: Control Unit Arithmetic Logic Unit Primary Memory	(6 marks)
	(ii) Desc (I) (II) (III) (IV)	ribe briefly the following types of Memories:- Cache Memory Bubble Memory Holographic Memory Core Memory	(8 marks)
(b)	Describ	e any THREE Common Service Programs	(6 marks)