



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT COMPUTER SCIENCE & INFORMATION TECHNOLOGY

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY- BSCIT 11M

ICS 2174: INTRODUCTION TO COMPUTER SCIENCE

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY/MARCH 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections **A & B**

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

Question 1

a) (i) Define the following terms:-

- I. Bit
- II. Modem
- III. Interface
- IV. Hardware
- V. Information

(5 marks)

(ii) Describe the following computer generations:-

- I. 3rd Generation computers
- II. 4th Generation
- III. 5th Generation

(3 marks)

(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)

(d) Briefly describe two varieties of ROM.

(2 marks)

Question 2

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	BUDGET	ACTURAL 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	T
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			

(iii) Write the formulae and or function to calculate values in cells - Q, R, S, T, U and V.

(iv) Write the formulae to calculate the difference between actual transaction and budget plan. (8marks)

(v) Outline the procedure for creating a chart in MS Excel using chart wizard. (3marks)

(b) Outline the procedure for creating folders in MS Excel/MS Word.

(3 marks)

(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. (6 marks)

Question 3

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 MSAPOLY in root directory of drive C. This directory contains a sub directory called DEPARTMENTS.
- The department sub directory contains ELECTRICAL, BUILDING, MECHANICAL and COMPUTING sub directories.
- Under ELECTRICAL create a sub directory called SECTION which contains sub directories POWER, ELECTRONICS, TELECOMMS and CONTROL.
- Under POWER create sub directory BSC and under BSC create subdirectory SUBJECTS. The subjects sub directories include MATHS, PHYSICS, and DRAWING. (14 marks)

b) (i) While under the sub directory MATHS of Q.3a (ii) create a file called Maths.txt with the following contents $4+5 - 4 = 9$.

(ii) Copy Maths.txt file to the sub directory DEPARTMENTS, and then remove MATHS sub directory. (6 marks)

Question 4

(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 5

(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

(IV) Core Memory

(8 marks)

(b) Describe any THREE Common Service Programs

(6 marks)