



MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR DEGREE IN
BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT AND TRADE**

SIT 101: FOUNDATION OF INFORMATION TECHNOLOGY

DATE: 2/6/2017

TIME: 2:00 – 4:00 PM

INSTRUCTIONS

Answer Questions ONE and Any Other Two Questions

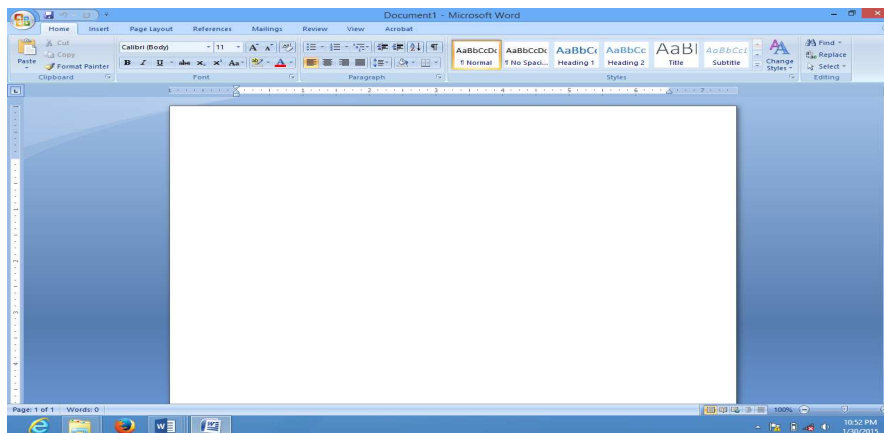
QUESTION ONE(COMPULSORY) (30 MARKS)

- a) Differentiate between Switch User option and the Log Off option in windows start up button (4 marks)
- b) List and explain the two major parts that make up a computer (4 marks)
- c) Define the following terms as used in communication by use of networked computers
 - i. Internet
 - ii. Intranet
 - iii. Extranet
 - iv. E-commerce (8 marks)
- d) List and explain the two categories of computer software (4 marks)
- e) Using a well-defined formula determine 62 in its binary representation (4 marks)

- f) Describe the following languages as used in computing (6 marks)
- Machine languages
 - Assembly languages
 - Higher-level languages

QUESTION TWO (20 MARKS)

- a) Define the following terms as used in Number systems in computing (8 marks)
- Binary Codes
 - Octal numbers
 - Decimal numbers
 - Hexadecimal numbers
- b) From the screen shot below, identify and explain any SIX parts of a windows (6 marks)



- c) Define the following terms as used in business application software (6 marks)
- Database
 - Spreadsheets
 - Presentations

QUESTION THREE (20 MARKS)

- a) Although computers are of great benefit to the current society they have also brought some challenges; list and explain FIVE problems that came as a result of computers (10 marks)
- b) Discuss FIVE advantages of on-line trading /doing business by use of internet (10 marks)

QUESTION FOUR (20 MARKS)

- a) Explain at least FIVE benefits of using computers in the modern society (10 marks)
- b) Calculate Hexadecimal 91 to its binary equivalent binary (5 marks)
- c) Using HTML code, show the main parts which make a simple web page (5 marks)

QUESTION FIVE (20 MARKS)

- a) Windows is one of the most commonly used operating system; Discuss at least FOUR functions of the operating system (8 marks)
- b) Calculate 63 in Hexadecimal as it's represented in number systems (4 marks)
- c) Write formulas for the operations (i) – (iv) based on the spreadsheet given below along with the relevant cell address:

	A	B	C	D	E	F	G
1	SNO	Name	Science	Maths	Computers	Total	Average
2	1	Swati	70	80	87	--	--
3	2	Shruti	90	98	89	--	--
4	3	Neelu	90	90	98	--	--
5	4	Rosy	60	76	79	--	--
6	5	Shreya	50	45	67	--	--
7	Max				--		
8	Total		--				

- i. To calculate the Total Marks as sum of Science, Maths & Computers for each student and display them in column F. (2 marks)
- ii. To calculate the average marks for each student and display them in column G. (2 marks)
- iii. To calculate the highest marks in Computers and display it in cell E7. (2 marks)
- iv. To calculate the total number of students appearing for the Science test and display it in cell C8. (2 marks)