TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF BUSINESS ADMINISTRATION

UNIVERSITY EXAMINATION FOR:

BACHELOR OF COMMERCE / BACHELOR OF BUSINESS

ADMINISTRATION

EIT 4103: FUNDAMENTALS OF COMPUTER SYSTEM

END OF SEMESTER EXAMINATION

SERIES: APRIL 2016

TIME: 2 HOURS

DATE: Pick DateSelect MonthPick Year

Instructions to Candidates
You should have the following for this examination
-Answer Booklet, examination pass and student ID
This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.
Do not write on the question paper.

Question ONE
a) Name **two** output devices used for producing **softy-copy output,** and **two** output devices used for producing **hard-copy output**.   (4 marks)
b) The management of a small business has decided to computerize most of its operations. Generate any four benefits that will be realized by this process of computerization   (4 marks)
c) Name four data input methods that can be used to key in data into the computer system.   (4 marks)
d) Differentiate between RAM and ROM.   (4 marks)
e) An operating System is a set of programs that controls functioning of hardware. Explain any four functions of an Operating System of a computer   (8 Marks)
f) Highlight **six** main features of the first computer generations   (6 marks)

Question TWO
a) Buying a computer from the market requires a careful consideration. Explain any four specifications that one should considered when sourcing for a computer.   (8 marks)
b) Lilian bought a computer for use at home. An open source operating system was supplied along with the Computer.
  i) What is meant by the term "open source"   (2 marks)
  ii) Lilian also wanted to play games using the computer. State three input devices she can use to play games.   (3 marks)

iii) Name any three utility programs that she can install in her computer. (3 marks)
c) Highlight **four** criteria that should be used when selecting softwares for the organization. (4 marks)

Question THREE
a) Computer system is made up of the hardware, software and people ware. Each component plays an important role, without each other computer systems will not work properly. Using suitable examples, classify computers according to technology. (9 marks)
b) Briefly explain why a cell phone is referred to as a computer. (5 marks)
c) Validation is about making sure that the data entered into the system is sensible and possible within reasonable bounds. State and explain three methods that can be used for data validations. (6 marks)

Question FOUR
a) Computers have various applications in the real life situation. Describe three application areas in which computers are being used at our homes (6 mark)
b) Perform the following computations
   i) $(11100.011)_2 = (?)_{10}$ (3 marks)
   ii) $2567_8 + 3476_8$ (3 marks)
   iii) $11101_2 - 1110_2$ (2 marks)
c) The secondary storage is very important in a computer system. State any seven reasons why computer system requires secondary storage media (6 marks)

Question FIVE
a) Explain any three sources of computer viruses. (6 marks)
b) Highlight two advantages and two disadvantage of a cache memory. (4 marks)
c) Explain the meaning of the following terms as used in computer (10 marks)
   i) Primary memory
   ii) Utilities softwares
   iii) Auxiliary memory
   iv) Operating system
   v) Application softwares