TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR DEGREE IN:
BACHELOR OF MEDICAL LABORATORY SCIENCE
BACHELOR OF MATHEMATICS & COMPUTER SCIENCE
BACHELOR OF COMMUNITY HEALTH
(BMLS, BMCS & BSCH)

EIT 4150: INTRODUCTION TO INFORMATION TECHNOLOGY

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2014
TIME: 2 HOURS

Question One (Compulsory)

a) Briefly explain the meaning of the following terms:
   (i) Information
   (ii) Data
   (iii) Knowledge
   (iv) Computer   **(8 marks)**

b) What do you understand by the term computer peripheral/ hardware? Name any FOUR examples of such devices.   **(6 marks)**

c) Everyday people use computers in different ways. Citing relevant examples, of the technologies used describe any FOUR applications of computers in business society   **(8 marks)**

d) Briefly explain the meaning of the term 'CPU'. Describe any THREE components of a central processing unit.   **(5 marks)**

e) What is a secondary storage device? Suggest TWO reasons why they are preferred for storage of data   **(3 marks)**

Question Two

a) Explain the manifestation of a virus attack and how viruses can be dealt with in computers
                                                                                          (10 marks)

b) With relevant examples describe the main types of computer application software grouping
                                                                                          (6 marks)

c) List any TWO wireless and wired media used for computer network or telecommunication implementation   **(4 marks)**

Question Three

a) Explain what you understood by the term network topology. Use a diagram to illustrate any three Local Area Network (LAN) topologies   **(8 marks)**

b) Differentiate between impact and non-impact printers citing an example in each case
                                                                                          (6 marks)

c) Computer operating system is commonly referred to as the executive manager of a computer system:
   (i)   List FOUR computing resources that it manages   **(4 marks)**
   (ii) Differentiate between DOS and Windows Operating System   **(2 marks)**

Question Four

a) Explain the following terms suggesting why they are important in acquisition of a computer.
   (i)   Hertz
   (ii) Bytes   **(8 marks)**

b) You have been invited to give a task on the evolution of computers according to generations. Identify any SIX key features you would address to distinguish between the generation
                                                                                          (6 marks)

c) Identify and explain the factors you will consider when choosing computer memory   **(6 marks)**

Question Five

a) Identify and explain any THREE modern devices used to enter data into the computer system. For each case, explain how the organization can take advantage of the device   **(6 marks)**

b) The internet has changed the way people think and behave. Outline THREE advantages that the internet has brought to the society   **(6 marks)**

c) Compute the following   **(4 marks)**
   (i)   345 + 256 (base 8)
   (ii) 10000 – 111 (binary)

d) Evaluate features of a good operating system   **(4 marks)**