TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:
BACHELOR OF SCIENCE IN MATHEMATICS & COMPUTER SCIENCE
(BSMC)

EIT 4101: INTRODUCTION TO INFORMATION TECHNOLOGY

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2013
TIME: 2 HOURS

Question One (Compulsory)

a) With the aid of a diagram discuss the elements of a basic computer system.   **(6 marks)**

b) Explain the functions of main memory in computer   **(2 marks)**

c) Discuss the applications of computer in various operations   **(4 marks)**

d) Distinguish between:
   (i)   RAM and ROM
   (ii) Persistent and temporary storage
   (iii) ALU and CU   **(6 marks)**

e) Briefly discuss the different classification of software.   **(8 marks)**

f) Briefly explain any TWO secondary storage devices   **(4 marks)**

Question Two

a) Explain the functions of the optical mark reader and state areas where it can be effectively applied.
                                                                                 (4 marks)
b) Explain reasons why a word processing application is important to an organization and state any two word processing software applications you would recommend for use.   **(8 marks)**

c) Briefly explain the following word processing features:
    (i)   Mail merge
    (ii)   Headers and footers
    (iii) Text alignment
    (iv) Formatting   **(8 marks)**

Question Three

a) State the functions which you would use to compute:
    (i)   The average profit shown below
    (ii)   The values of the actual profit column
    (iii) Bonus of 12Y. If Average Profit > = 100

Item	Production Cost	% Profit	Actual Profit
Erick	600	25%	150
Joe	535	18%	96.3
Anne	327	27%	88.29
Stella	760	22%	167.2
		Avg. Profit	125.45
		Bonus	?

b) Briefly discuss features and functions of electronic spreadsheets   **(8 marks)**

c) Explain the purpose of the following as used in Microsoft Excel   **(6 marks)**
    (i)   Count IF
    (ii) Today
    (iii) PMT

Question Four

a) Explain how you would create a directory called Jane in the C: drive using the Microsoft Windows XP platform.   **(4 marks)**

b) State any THREE functions of any database management application of your choice. **(6 marks)**
c) Explain the following as used in databases:
    (i)   Primary key
    (ii)   Composite key
    (iii) Relationship
    (iv) Table
    (v)   Queues   **(10 marks)**

Question Five

a) Briefly explain the components of a local area network.   **(6 marks)**

b) Discuss any FIVE ethical and societal issues of ICT   **(10 marks)**

c) Explain any FOUR collaboration tools available on the internet today.   **(4 marks)**