UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF COMMERCE, ECONOMICS AND NURSING

XEA 104/AEB 101/AEB 106: INTRODUCTION TO COMPUTERS

DATE: APRIL 5, 2017   TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

a) State and explain any three methods used in classifying computers giving relevant examples in each case. (6 marks)

b) Define the following terms
   i)   Desktop
   ii)   File
   iii) Recycle bin
   iv)   Icon
   v)   Folder
   vi)   Information (6 marks)

c) Highlight four differences between ROM and RAM. (4 marks)

d) With the help of a diagram, describe four main parts of the computer architecture citing two examples in each. (4 marks)

e) Differentiate between an application software and a system software. (4 marks)

f) State the effects of a virus to a computer. (6 marks)

QUESTION TWO (20 MARKS)

Increasing the use of <u>Local Area Networks</u>, <u>Metropolitan Area Networks</u> and the <u>Wide Area Networks</u> widened the scope of computer applications. The services available on the internet include the <u>World</u> <u>Wide</u> <u>Web</u> and <u>e-mail</u>.

i)   Explain each of the terms underlined   (10 marks)

ii)   Suggest three advantages of using a Local Area Network.   (6 marks)

QUESTION THREE (20 MARKS)

a) Distinguish between digital and analogue computers.   (4 marks)

b) Electronic commerce transactions are becoming common these days as internet spreads across the world. Discuss the advantages and disadvantages of E- commerce to both sellers and buyers.   (12 marks)

a) What do the following shortcut keys mean?

    i)   CTRL+O

    ii)   CTRL+A

    iii)   CTRL+Z

    iv)   CTRL+C   (4 marks)

QUESTION FOUR (20 MARKS)

a) Convert the following:

    i) 36_{10} to binary

    ii) 76_{10} to hexadecimal

    iii) 1000101_2 to octal   (6 marks)

b) Paul completed typing a document and realized the document had several words that were underlined in red and green wavy lines. Explain what would have caused this and how the problem can be solved.   (4 marks)

c) Define the term Network protocols. State and explain the various protocols that are in use currently (10 marks)

QUESTION FIVE (20 MARKS)

a) State and explain two health risks associated to use of computers. (4 marks)

b) Distinguish between a file and a folder. (4 marks)

c) Explain the functions of an operating system. (8 marks)

d) State and explain the functions of any two (2) components inside the systems unit of a micro-computer. (4 marks)

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