CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

SUPPLEMENTARY / SPECIAL EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

COMP 101: INTRODUCTION TO COMPUTER APPLICATIONS

STREAM: BSC   **TIME: 2 HOURS**

DAY/DATE: THURSDAY 23/4/2015   **2.30 P.M – 4.30 P.M.**

<u>**Candidate's Instructions**</u>

- **Answer QUESTION ONE in section A and any other TWO questions from section B.**
- **This is a CLOSED BOOK exam. No reference materials are allowed in the exam room.**
- **No mobile phone is allowed in the exam room** *(make sure to switch it off and leave it with the invigilator if you carried one).*
- **Write your answers legibly and use your time wisely**
- **Time 2 hours**

SECTION A (COMPULSORY) [30 MARKS]

Question One (COMPULSORY) [30 marks]

(a) Explain briefly what is a wireless access point   [3 marks]

(b) Explain the difference between Internet Server computer and a Web Client computer.
                                                                         [3 marks]

(c) Explain any three major functions of a computer system   [3 marks]

(d) Explain what you understand by the following terms   [3 marks]
    i)   Bit
    ii)   Software
    iii)   Computer Network

(e) Explain why the operating system software is the core system software in a computer.

[3 marks]

(f) When purchasing a desktop computer, there are basic computer parts you check for. These include: the monitor, system unit, keyboard and mouse. [6 marks]

    (i) Explain the **two** types of memory devices that are housed in the system unit.

    (ii) Explain how the above two types of memory devices complement each other.

(g) Given a computer network, explain what is communications media? With relevant examples, explain the two major types of communications media. [5 marks]

(h) Explain what is a search engine and the two main types of search approaches

[3 marks]

(i) Explain the importance of Presentation graphics software such as Microsoft PowerPoint. [1 mark]

SECTION B (ANSWER ONLY TWO QUESTIONS FROM THIS SECTION)

Question Two [20 marks]

(a) Jeff a student at Chuka University was asked by his lecturer to "identify and classify five types of computers", Explain the correct answer expected from Jeff. [10 marks]

(b) Describe any five types of computer networks. [10 marks]

Question Three [20 marks]

(a) State and explain any four factors you would consider when acquiring application software. [8 marks]

(b) "Fourth generation computers are more effective and better than the earlier generations of computers". Discuss. [6 marks]

(c) Discuss **three** measures one should take to prevent a computer from being infected by viruses. [6 marks]

Question Four [20 marks]

(a) Given an Excel sheet with data in the cells B1, B2, B3, B4 and B5.
    (i) In cell B6, write a function to find the total of the five cells. [2 marks]

    (ii) In another cell B7, write a formula to find the average of the five cells. [2 marks]

(iii) Suppose there is an error in the result B6 and we cannot find the total. State and explain any THREE possible errors expected. [6 marks]

(b) Explain any five uses of the Internet. Hint: Consider general application areas where Internet is in use and its importance in relation to when it was not there. [10 marks]

Question Five [20 marks]

(a) Your department chairman has asked you to prepare a presentation on the use of computers in the society. Other than the use of computers in learning institutions, explain **five** issues you would consider in your presentation. [5 marks]

(b) Are computer networks important in school/learning institutions such as a university? Explain any THREE reasons to support your answer. [7 marks]

(c) With the aid of a well labelled diagram, explain the functional hardware units of a computer system. [8 marks]