CHUKA UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE COMMUNITY DEVELOPMENT

ODEL

COSC 103: INTRODUCTION TO COMPUTER APPLICATIONS

Candidate's Instructions

- Answer QUESTION ONE and any other two questions
- Do not write on this question paper.

Question One [30 marks] (COMPULSORY)

(a) Explain the following computing terms:
   (i)   Bit   [2 marks]
   (ii) Hardware [2 marks]

(b) Explain how to do the following tasks in a typical Microsoft word application document:

   (i) Copy and Paste a paragraph   [2 marks]
   (ii) Insert page numbers   [2 marks]

(c) Convert the 349_{10} to its binary (base 2) equivalent   [4 marks]

(d) Explain the following computing terms: [4 marks]
   i)   Software
   ii) Internet

(e) Explain what you understand by the term "Storage Device". Give four examples of storage devices.   [4 marks]

(f) Differentiate between system software and application software. Give two examples of each.   [4 marks]

(g) Discuss three types of computer network topologies.   [6 marks]

Question Two [20 marks]

(a) Discuss the advantages of using a computer system in problem solving.   [10 marks]

(b) Write both Microsoft Excel *formula* and *function* that are going to perform the following tasks: [4 marks]
   i)   Get the average of cells C3, C4, C5 and C6

ii) Get the sum of cells C3, B3, D3, E3, G3

(c) One of the attacks on a computer system is performed by viruses. Explain what a virus and the possible ways of preventing a computer from viruses. [6 marks]

Question Three [20 marks]

(a) Describe the two major classifications of printers. Give two examples of each classification. [6 marks]

(b) Passwords are proven security measures in computing technology. Explain what is a password and its' importance. [5 marks]

(c) Using a block diagram, explain the basic hardware components of a computer system. [9 marks]

Question Four [20 marks]

(a) Discuss THREE major functions performed by the operating system software in a computer system. [9 marks]

(b) Perform the following number conversion:
1011011.01_2 to decimal system. [3 marks]

(c) Microsoft PowerPoint is an example of presentation graphics software for creating presentation slides. Explain four features of good Microsoft PowerPoint presentation slides. [8 marks]

Question Five [20 marks]

(a) Explain the use of computers in the following areas:
   (i) Banking [6 marks]
   (ii) Education [6 marks]

(b) Differentiate between the following computer types:
   (i) Supercomputer and personal computer [4 marks]
   (ii) Internet server computer and Web client computer [4 marks]