CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE

COSC 103: INTRODUCTION TO COMPUTER APPLICATIONS

STREAMS: ODEL TIME: 2

HOURS

DAY/DATE: FIRIDAY 23 / 07/ 2021 8.30 AM – 10.30 AM

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 349₁₀ 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:

 1011011.01₂ 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.

marks]	[8]
Question Five [20 marks]	
(a) Discuss 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(ii) Internet server computer and Web client computer	[4 marks] [4 marks]
(ii) internet server computer und viele enem computer	[i marks]