UNIVERSITY EXAMINATIONS 2020/2021.

FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE BACHELOR OF SCIENCE DEGREE IN COMMUNITY DEVELOPMENT.

STREAMS: B.Sc (COMM DEV) Y1S1 - ODEL/SB

COSC – 103 : INTRODUCTION TO COMPUTER APPLICATIONS.

DATE: MARCH 2021.   MAIN EXAM DRAFT   TIME: 2 Hours.

INSTRUCTIONS: Answer ALL questions **in section A** and any other **TWO** in section B.

SECTION A (COMPULSORY - ANSWER ALL QUESTIONS IN THIS SECTION)

QUESTION ONE (30 MARKS)

(a) Using the computer block diagram explain four basic functions of a computer system.
(7 marks)

(b) Discuss the operations of any two types of computer viruses.   (4 marks)

(c) Discuss three characteristics of computers   (6 marks)

(d) Outline at least four key features of fourth and fifth computing generations.   (4 marks)

(e) Explain the three categories of computers according to their functionalities.   (6 marks)

(f) Define the term Protocol as applied in computer networks and outline the functions of a communication protocol.   (3 marks)

SECTION B: CHOOSE ONLY TWO QUESTIONS FROM THIS SECTION

QUESTION TWO   (20 MARKS).

a). State and explain **four** different types of computer registers.   (8 marks)

b). List and explain four Components of a communication network: (8 marks)

c). Discuss **two** fundamental categories of Computer software using suitable examples for each. (4 Marks)

QUESTION THREE (20 MARKS)

(a) Computers have different uses in a business setting. Using relevant examples, discuss their various uses in a busy business setup. ([10 Marks)

(b) Discuss the various applications of internet in our society today. (10 Marks)

QUESTION THREE (20 MARKS) .

a). Explain the purpose of EACH of the following elements of a computer system: (6 Marks**)**

      i.   Accumulator
      ii. ALU
      iii. Control unit
      iv. Data bus
      v. RAM
      vi. ROM

    b) Discuss the following forms of computer networks: LAN; WAN and MAN. (5 marks)

c). Describe Star topology, Bus topology and Mesh network topologies, giving their advantages and limitations. (9 marks)

QUESTION FIVE (20 MARKS)

    a) The bus subsystem consists of three main parts. Name and explain the parts. [6Marks]

    b) List and explain any three types of computer operating systems. [6marks].

c) Using appropriate examples distinguish between input and output devices.   (8 marks)