CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

**THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF COMMERCE, BACHELOR OF COOPERATIVE MANAGEMENT
AND BACHELOR OF ENTERPRENEURSHIP AND ENTERPRISE MANAGEMENT**

COSC 105: INTRODUCTION TO COMPUTER APPLICATIONS IN BUSINESS

STREAMS: BCOM, BCOP, BEENS   **TIME: 2 HOURS**

DAY/DATE: WEDNESDAY 08/04/2020   **8.30 AM – 10.30 AM**

INSTRUCTIONS:

Answer QUESTION and ANY OTHER TWO:

SECTION A:

QUESTION ONE   [30 marks]

a) What do you understand by the term information system?   [2 marks]

b) Discuss difference between the three major types of user interfaces?   [6 marks]

(c) "A continuing stream of information technology (IT) innovations from internet to
        wireless networks to Digital phones are continuing to transform the Business
        World". with very appropriate examples justify the statement   [4 marks]

(d) Many government offices still use stand alone computers despite the new networking
    technology that is being used in many institutions. Why is telecommunication and
    computer network so vital to the operations of an institution?   [2 marks]

(e) Depending on its intended use, an operating system will support just one user running one
    program or thousands of users running multiple programs. These capabilities of operating
    systems are described as *single tasking, multi-user, multiprocessing and virtual memory*.
    You are required to briefly describe what each term means.   [3 marks]

   (f)   Explain how the following online communities could be used constructively in the
       business sector: (6 marks)
                        i)   Facebook
                        ii)   Twitter
                        iii)   LinkedIn

g) Define an operating system? What services does an operating system offer to a computer? Explain at least four of these services (4 marks)

h) Discuss various methods/ways /techniques an organization can put in place to protect its systems (4 marks)

SECTION B (Answer any other two questions from this section)
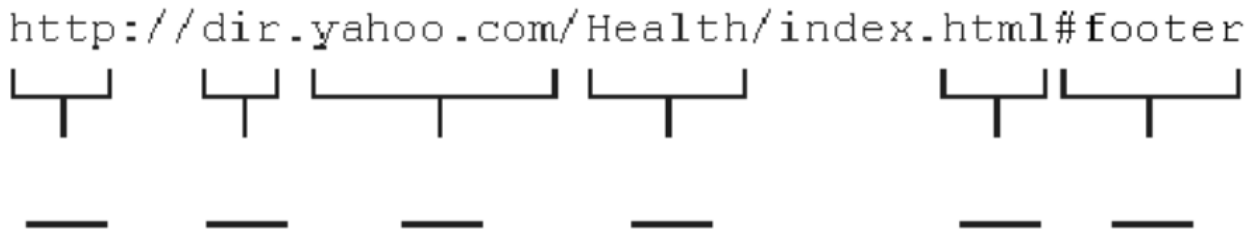
QUESTION TWO   [20 marks]

(a) By means of suitable a diagram, explain the meaning of the fetch/execute cycle and show how an instruction is executed. Your answer should show the sequence of actions during the reading and execution of an instruction. [6 marks]

(b) Explain the Role Big Data is playing in shaping and changing in the Business world [4 marks]

(c) What is virtual meeting? Explain the relevance of virtual meeting to the business sector? [4 marks]

(d) Notice how the URL below has been broken up into six parts. Using six of the nine terms below, label each of these parts with the most appropriate term by writing that term's letter on the horizontal line beneath the part. [6 marks]

A. domain
B. hostname
C. file name
D. file extension
E. folder name
F. fragment ID
G. path
H. protocol
I. top-level (a.k.a. top-most) domain

QUESTION THREE [20 marks]

(a) Explain the component parts of an e-mail address [3 marks]

(b) State and explain five uses of the internet. [5 marks]

(c) Explain what is meant by network topology? Describe any two types of network topologies with a suitable diagram? [6 marks]

(d)   Describe why a word processing application is important to an organization and state any two-word processing software application you would recommend for use.

[3 marks]

(e)   Differentiate between URL and IP-Address   [3 marks]

QUESTION FOUR [20 marks]

(a) Discuss Reporting alternatives as information product provided by MIS to Managers?

[4 marks]

(b) Describe the uniqueness of E-commerce.   [4 marks]

(c) Explain the advantages of database management system over file management systems

[4 marks]

(d) Differentiate between cold booting and warm booting.   [4 marks]

(e) There are TWO major types of network architectures namely: Peer-to-peer and client/server architectures. You are required to briefly explain the difference between the two.

[4 marks]

QUESTION FIVE   [20 marks]

(a)   Given the following specifications, "*Intel* Pentium4 @.4GJz/256MB RAM/40GB Hard Disk/17" SVGA CRT/Multi media", explain what each part means.   [5 marks]

(b)   Discuss the five business models of E-commerce into detail.   (5 marks)

(c)   Describe at least   FOUR types of printers   [4 marks]

(d)   Find the hexadecimal equivalent of the following decimal numbers.

i. 12.5078125_{10}.   [3 marks]

ii. 2670_{10} [3 marks]