CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF COMMERCE

COSC 105: COMPUTER APPLICATIONS IN BUSINESS

STREAMS: ODEL   **TIME: 2 HOURS**

DAY/DATE: THURSDAY 07/10/2021   **11.30 A.M. – 1.30 P.M.**

INSTRUCTIONS

Instructions: Answer Question One and any other two questions

Question One (30 marks)

(a) Identify three security measures to take in online communications.   (3 marks)

(b) Explain three types of computer network topologies.   (3 marks)

(c) Explain the following terms: (4 marks)

   (i) Bit

   (ii) Computer network topology

   (iii) Computer network

   (iv) The Internet

(d) Differentiate between the following;   (4 marks)

   (i) Computer software and computer hardware

   (ii) Operating System software and application software

(e) State the use of the following keyboard short cuts in windows operating system. (4 marks)

   (i)   CTRL + C

   (ii)   CTRL + S

   (iii)   CTRL + F

    (iv)   CTRL + V

(f) Explain four measures a computer user is required to take to ensure security of data stored in a computer system. (4 marks)

(g) Given the data in the excel sheet in the cells C3, D3, E3, F3 and G3. Write both the formula and function for computing the average. (4 marks)

(h) Explain two functions of the operating system software in a computer system. (4 marks)

Question Two (20 marks)

(a) Software can be classified into **two** major categories. State and explain these categories. (4 Marks)

(b) Explain the four types of computers in relation to their computing power. (4 Marks)

(c) Discuss three types of computer networks. (6 marks)

(d) Safari land Ltd is in the process of computerizing the operations of its firm. Explain **three** general considerations that the management would prefer when purchasing a business management application software. (6 Marks)

Question Three (20 marks)

(a) Explain the three major differences between main memory and hard disk in a computer system. [6 marks]

(b) Fred is the head of a local Network consulting company. His company has won a contract to design and develop a network for a middle level college in Chuka. Explain four benefits the college will gain by implementing the network. (8 marks)

(c) Discuss four applications of computers in business. (8 marks)

Question Four (20 marks)

(a). Using a well labeled diagram, discuss the five major hardware units in a computer system. Show how they interact. [6 marks]

(b). Discuss four security precautions that one should take in online shopping and in any other online activities. [8 marks]

(c). Discuss four uses of computers in a learning institution that would necessitate every student to having basic computing skills. [8 marks]

Question Five (20 marks)

(a). Discuss five symptoms of a computer infected with a virus. [5 marks]

(b). Explain the importance of passwords in computing and possible ways of keeping your passwords safe. [6 marks]

(c). The table below shows bonus points for staff members at GoodLuck Limited.

Inde x	A	B	C	D	E
	Name	**Month 1**	**Month 2**	**Month 3**	**Month 4**
1	James	48	89	65	89
2	Mary	54	76	68	80
3	Korir	17	88	76	86
4	John	99	60	65	58

Use the information above to answer the questions below.

(i). Write a formula in MS Excel that would calculate the mean score for Mary.

[3 marks]

(ii). Write a function in MS Excel that would compute the highest score in month 3.

[3 marks]

(iii). Write a function in MS Excel to compute the average score for Month 2. [3 marks]

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