

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

COSC 105: COMPUTER APPLICATIONS IN BUSINESS

STREAMS: BSC (COMP. SCI) ODEL

TIME: 2 HOURS

DAY/DATE: THURSDAY 10/04/2025

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- Answer question **ONE** and **TWO** other questions
- Do not write anything on the question paper
- This is a **closed book exam**, no reference materials are allowed in the examination room
- There will be **NO** use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely.

SECTION A (ANSWER ALL QUESTIONS IN THIS SECTION)

QUESTION ONE (30 MARKS)

- Explain three characteristics of a computer that make it good for information processing. (6 marks)
- How will you write the formula to “Multiply the value in cell A1 by 10, add the result by 5, and divide it by 2”? (3 marks)
- Outline FIVE reasons why the operating system software is the core system software in a computer. (5 Marks)
- Differentiate between a Computer Worm, Virus, and Trojan. (3 Marks)
- State FOUR features would be required to write the following statement as it is. (4 marks)
Computers are as *essential* to business as H₂O is to LIFE.
- Explain FIVE benefits of ERP in businesses. (5 Marks)
- Diagrammatically present and explain a client-server network. (4 Marks)

SECTION B (ANSWER ANY TWO QUESTIONS FROM THIS SECTION)

QUESTION TWO (20 MARKS)

- An upcoming organization uses a lot of files in keeping records; the organization wants to break down the paperwork and automate the basic routine jobs by interconnecting computers in the organization. What will be the business benefits of networking the organization? (10 marks)
- Describe **four** computer crimes taking place in society citing control measures that can be put in place to curb them. (8 marks)

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- c. Outline the use of the following shortcut keys (2 marks)
- i. Ctrl + P
 - ii. Ctrl + Z

QUESTION THREE (20 MARKS)

- a. Samuel and Rael are Head of Sales in different branches of the same Organization. Both are meeting with management in the board room to report on their branch performance. Samuel has prepared a PowerPoint presentation and speaker notes while Rael has armed herself with only handwritten notes.
- i. Explain five reasons why Samuel's reporting may in the long run be more effective than Rael's. (10 Marks)
 - ii. Describe five factors to consider while preparing an effective PowerPoint presentation (5 Marks)
- b. A very successful Fast Food restaurant chain has over thirty branches spread over three different continents. Explain why this business needs Mainframe computers. (5 Marks)

QUESTION FOUR (20 MARKS)

- a. Explain the difference between "information" and "data" in business operations. (4 marks)
- b. Discuss two wireless transmission media used in computer networks. (4 marks)
- c. Explain the difference between utility software and system software, providing an example of each. (6 marks)
- d. Describe THREE ways malware can enter a company's IT infrastructure. (6 marks)

QUESTION FIVE (20 MARKS)

- a. Describe FIVE types of computer networks (10 marks)
 - b. Explain the TWO types of memory devices that are housed in the system unit, citing a difference between them. (4 marks)
 - c. Describe THREE ways through which an organization can connect to the Internet services. (6 marks)
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