



*“Investing in Africa’s Future”*

**COLLEGE OF ENGINEERING AND APPLIED SCIENCES**

**NCIS408: MANAGEMENT INFORMATION SYSTEMS**

**END OF FIRST SEMESTER EXAMINATIONS**

**NOVEMBER 2025**

**MR J. CHINZVENDE**

**TIME: 3 HOURS**

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### ***INSTRUCTIONS***

Answer questions instructed in each section

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Start **each** question on a new page.

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The marks allocated to **each** question are shown at the end of the section.

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**Answer all questions in Section A and Chose Two (2) in section B**

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Credit will be awarded for logical, systematic and neat presentations.

**Section A [Answer all]**

**Question One**

Define the following terms as they are used in Software Engineering

- a. Information System (IS)
- b. Decision Support System (DSS)
- c. Enterprise Resource Planning (ERP)
- d. Database Management System (DBMS)
- e. Customer Relationship Management (CRM)

[10]

**Question Two**

**Differentiate between the following terms as they are used in MIS**

- a. Business Intelligence (BI) vs. Data Mining
- b. Database Management System (DBMS) vs. Data Warehouse
- c. Management Information System (MIS) vs. Information System (IS)
- d. Decision Support System (DSS) vs. Management Information System (MIS)
- e. Transaction Processing System (TPS) vs. Management Information System (MIS)

[10]

**Question Three**

Copy and complete the data hierarchy below

<u>Level</u>	<u>Definition</u>	<u>Process</u>	<u>Example</u>
		Collection and storage	
Information		Analysis and organization	
			Knowing that high sales in December are due to holiday shopping.
Wisdom		Reflection and synthesis	

[10]

**Question 4**

Discuss the importance of MIS in strategic planning and decision-making within an organisation. [10]

**Question 5**

Analyze how MIS can support strategic planning and operational efficiency in an organisation [10]

**SECTION B [Answer any Two(2)]****Question Six**

Africa University is planning to implement a new Management Information System to streamline its operations.

- a. Identify and explain three key stakeholders involved in the implementation process. Why are their roles important? [10]
- b. Discuss two potential challenges the company might face during the implementation of the MIS. How can these challenges be mitigated? [10]
- c. Outline the steps the company should take to ensure successful change management during the transition to the new system. [05]

**Question Seven**

Africa University Clinic is using an MIS to manage patient data and improve service delivery.

- a. Describe the types of data that the MIS should collect and explain their significance for decision-making in healthcare. [10]
- b. Explain how data analytics can be utilized within the MIS to enhance patient care. [10]
- c. Discuss the ethical considerations the organization must address when handling patient data. [05]

**Question Eight**

Stanbic bank relies heavily on its MIS for transaction processing and customer data management. [10]

- a. Discuss the importance of cybersecurity measures in protecting the MIS.
- b. Identify three specific security threats that the institution might face and suggest ways to mitigate these threats. [10]
- c. Explain the role of user training in maintaining the security of the MIS. [05]

**END OF EXAMINATION**