

UNIVERSITY EXAMINATIONS

FIRST SEMESTER 2025/2026 ACADEMIC YEAR

**FOURTH YEAR EXAMINATION FOR THE DEGREES OF
BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

**COMP 412/BUST 111/AGBM 312: MANAGEMENT INFORMATION
SYSTEMS**

STREAM: R

TIME: 2 HRS

DAY: FRIDAY [14.30 – 16.30 P.M]

DATE: 30/01/2026

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS TO CANDIDATES**SECTION A: (Compulsory) TOTAL MARKS FOR THIS SECTION IS 30.****QUESTION ONE (30 MARKS)**

- a) Distinguish between information system and management information system **(4 Marks)**
- b) Explain any **three** features of a good transaction processing system **(6 Marks)**
- c) Highlight **four** ways of managing information system resources in an organization **(4 Marks)**
- d) There are **four** major change-over strategies that may be adopted during the implementation phase of information systems development process. Recommend and justify the changeover strategies to be adopted for the following systems:
 - i) Electronic point of sale systems for chains of supermarkets countrywide. **(2 Marks)**
 - ii) Secondary school admission system. **(2 Marks)**
 - iii) Airline seat reservation system. **(2 Marks)**
- e) Explain the value of quality information in organizations **(4 Marks)**
- f) Describe any **three** features of information needed for strategic planning in an organization. **(6 Marks)**

SECTION B. TOTAL MARKS FOR THIS SECTION IS 40.

ANSWER ANY TWO QUESTIONS FROM THIS SECTION. EACH QUESTION IN THIS SECTION CARRIES 20 MARKS.

QUESTION TWO (20 MARKS)

- (a) State and explain any **three** qualities or desired attributes of a good information system **(6 Marks)**
- (b) Describe any **three** types of decisions that can be made in an organization **(6 Marks)**
- (c) Discuss the business and technological drivers of enterprise system in organization **(8 Marks)**

QUESTION THREE (20 MARKS)

Tactical management level may require the use of Decision Support Systems (DSS) for semi-structured decisions and data modeling.

Required:

- (a) Describe **four** functional characteristics of Decision Support Systems (DSS). **(8 Marks)**
- (b) Name **four** types of accounting information systems which DSS may address. **(4 Marks)**

- (c) Explain the term "prototype" and describe the main steps involved in its development. **(8 Marks)**

QUESTION FOUR (20 MARKS)

- (a) Briefly describe the systems development life cycle **(6 Marks)**
- (b) Describe the following information systems, clearly bringing out their characteristics:
- i. Strategic Information System **(2 Marks)**
 - ii. Knowledge Management Information System **(2 Marks)**
 - iii. Decision Support System **(2 Marks)**
 - iv. Transaction Processing System **(2 Marks)**
- (c) Explain ethical dimensions of management information systems **(6 Marks)**

QUESTION FIVE (20 MARKS)

New information systems quite often play a major role in the support of planning objectives of an organization. Management participation is required for better evaluation and control of new systems. From this scenario:

- (a) Identify and explain **three** forms of competitive strategies which information technology would address. **(9 Marks)**
- (b) Name **three** tangible and intangible benefits associated with new information systems. **(6 Marks)**
- (c) List **five** ethical and societal dimensions to the development and use of information technology. **(5 Marks)**