



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2022/2023

**FOURTH YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE
AND BACHELOR OF SCIENCE IN MATHEMATICS AND
COMPUTER SCIENCE**

MAIN CAMPUS

CCS 405: MANAGEMENT INFORMATION SYSTEM

Date: 10th January, 2023

Time: 3.30 - 6.30 pm

INSTRUCTIONS:

- DO NOT write anywhere on this question paper
- Answer question ONE and any other TWO questions



Question one (30 marks)

1. Explain the key components of a system (4 marks)
2. What are some of the characteristics of good information? (4 marks)
3. Explain the process of information generation (4 marks)
4. Give the roles of managers in an organization (4 marks)
5. Explain the concept of Management Information System (MIS) (2 marks)
6. Explain the below types of information systems
 - a. Transaction processing system (2 marks)
 - b. Decision support systems (2 marks)
 - c. Office support systems (2 marks)
7. Differentiate between threat and vulnerability in information system security (2 marks)
 - a. Give some example computer threats (2 marks)
 - b. Give some example computer security vulnerabilities (2 marks)

Question two (20 marks)

1. Example types of transaction processing systems (4 marks)
2. Relate the types of information system with the levels of management with an organization (6 marks)
3. Discuss the roles of Decision support systems in MIS (4 marks)
4. Given the following organizational functions, give example activities that are carried out under the major information processing components like Transaction processing, Operational control information system, Management control information and Strategic planning
 - a. Information processing subsystem (2 marks)
 - b. Logistics subsystem (2 marks)
 - c. Sales and Marketing subsystem (2 marks)

Question three (20 marks)

1. Explain the components of Information system (8 marks)
2. What are the major types of database models (6 marks)
3. Explain the concept of Knowledge management (2 marks)
4. Differentiate between data workers and knowledge workers (4 marks)

Question four (20 marks)

1. Explain 5 characteristics of Big data (10 marks)
2. Discuss the activities that take place in a systems development process (10 marks)

Question five (20 marks)

1. Explain the 3 service models of cloud computing (6 marks)
2. What do we mean by on demand self-service in cloud computing (4 marks)
3. In order to establish organizations information requirement, one needs to develop effective information system plan. What topics should be included in an information systems plan? Discuss. (10 marks)