MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

UNIVERSITY EXAMINATIONS

MAIN CAMPUS

2022/2023 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN COMPUTER SCIENCE

COURSE CODE: BCS 4 1 1

COURSE TITLE: MANAGEMEMENT INFORMATION SYSTEMS

DATE: 07/12/2022   **TIME:** 8:00-10:00AM

INSTRUCTIONS TO CANDIDATES
Answer questions ONE and any other TWO questions.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over. ▶

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QUESTION ONE (30 MARKS) COMPULSORY

a) Briefly discuss the managerial functions with respect to IS in an organization   [5 Mks]
b) Differentiate between a batch and real time system   [2 Mks]
c) What elements would you come across in a Database Management Sub system   [5 Mks]
d) State the goals of a transaction processing system to an organization   [4 Mks]
e) Explain your understanding of Information system resources   [4 Mks]
f) Briefly discuss why there is slow uptake of Information Systems in Africa   [4 Mks]
g) What are the fundamentals and dimensions of information systems   [6 Mks]

QUESTION TWO (20 MARKS)

a) Mogo Investment Group intends to install an Executive Support Systems.   [10 Mks]
Discuss the capabilities of the above system
b) Explain the following types of decisions, stating the level of management where each [6 MKs]
Could be applied:
   i.   Unstructured
   ii. Structured
   iii. Semi-structured
c) Differentiate between Agile and RAD as used in the system development life cycle   [4 Mks]

QUESTION THREE (20 MARKS)

a) OSI model allows any two different computers to communicate with each other without [14 MKs]
paging attention on their architecture. Discuss the OSI model
b) Explain any three roles of software in problem solving process in an organization   [6 MKs]

QUESTION FOUR (20 MARKS)

a) DSS is an interactive computer based systems, which help decision makers utilize   [10 Mks]
data and model to solve unstructured problems. Discuss in detail characteristics of DSS
b) Outline dangers that can accrue to systems inter connected via www   [4 Mks]
two of such behavior
c) State and explain ways a firm can use IS as a strategic advantage .   [6 Mks]

QUESTION FIVE (20 MARKS)

a) Business process is defined as a set of activities performed across the organization   [10 Mks]
creating an output of value to the customer. Discuss the elements inherent in the
above process.
b) Explain ways in which technologies in Industry 4.0 have revolutionized organizations [10 Mks]