MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR

FORTH YEAR FIRST SEMESTER REGULAR EXAMINATIONS

FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN IS & KM

COURSE CODE: BIK 410

COURSE TITLE: BUSINESS INTELLIGENCE SYSTEMS

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

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and choose any other Two.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

QUESTION ONE [30 MARKS]

a. Define the terms natural language understanding. Is it useful in intelligent system study? {5 marks}

b. Explain how the design of an business intelligent system is different from expert system. {10 marks}

c. Define the term AI to represent systems that think rationally specifying the author[s]. {5 marks}

d. What benefits does artificial intelligence bring to third world countries? Give examples. {10 marks}

QUESTION TWO [20 MARKS]

a. Agents are greatly dependent on the its level of intelligence. Why intelligence? {10 marks}

b. Explain the major differences in shell devepoment environments. {10 marks}

QUESTION THREE [20 MARKS]

a) Briefly outline your understanding of OLAP in relation to business intelligence sysyems. {10 marks}

b) Elaborate on the concept of data mining. {10 marks}

QUESTION FOUR [20 MARKS]

a) Discuss some of the Microsoft Business Intelligence Platform stakeholders. {10 marks}

b) Write short note on data mining tools strengths and weaknesses. {10 marks}

QUESTION FIVE [20 MARKS]

a) Explain the types of prediction queries that are commonly used in designing BI. {10 marks}

b) Discuss about basic prediction query design uses. {10 marks}

(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2022/2023 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DIPLOMA

OF

INFORMATION TECHNOLOGY

COURSE CODE: DIT 051

COURSE TITLE: COMPUTER APPLICATIONS

DATE: 07/12/2022   **TIME:** 09:00-11:00PM

INSTRUCTIONS TO CANDIDATES

Question ONE (1) is compulsory
Answer any other TWO Questions.
TIME: 1 Hour 30 Minutes

SECTION A
QUESTION ONE (24 MARKS) -Compulsory

  a. Define the following terms   (5 Marks)
      i. Word Processor.
     ii. Operating System
    iii. Database
     iv. Program
      v. Foreign Key

  b. A computer Memory is of two types. Briefly discuss the two types   (4 Marks)
  c. Discuss any THREE editing features of Ms. Word   (3 Marks)
  d. Explain any THREE advantages of computers in government institutions   (3 Marks)
  e. Explain any FIVE formatting features of Ms. Word   (5 Marks)
  f. Describe any TWO objects of an Access database   (4 Marks)

SECTION B –Answer any two questions in this section
QUESTION TWO (18 MARK)

  a. Discuss FIVE advantages of electronic spreadsheets   (5 Marks)
  b. Having been given scores for five courses, describe how you will present the scores in a Pie chart   (6 Marks)
  c. Study the Excel table below and answer the following question

	A	B	C	D	E	F	G	H
	Name	DIT 051	DIT 052	DIT 053	Total	Average	Remarks	Gender
1	Joseph	50	60	90		**C**	**D**(Using Average)	M
2	Anne	30	60	55				F
3	Bernice	60	45	68				F
4	Mike	67	33	43				M
5	Jayden	45	80	67				M
6	Kevin	90	75	77				M
8	CountIf	**A (Score> 60)**						
9	SumIf		**E (Criteria "M")**					
10	TOTAL		**B**					

Write the formulas to calculate results in cells indicated by A, B, C, D and E   (6 Marks)
Note: For remarks, grading is as follows: >=70 Grade is A; >=60 Grade is B;
>=50 Grade is C; >=40 Grade is D and <40 Grade is Fail.

QUESTION THREE (18 MARKS)

a. Describe how to create a folder on the desktop. (4 Marks)

b. Describe how to create a Drop Cap spanning three lines and appearing in the margin (5Marks)

c. Microsoft Word is a powerful tool used to create professional looking documents. Describe the features that make such possible (6 Marks)

d. Give THREE advantages of Mail Merging (3 Marks)

QUESTION FOUR (18 MARKS)

a. Discuss any FIVE functions of an operating system (10 Marks)

b. Distinguish between Application Software and System software (8 Marks)

QUESTION FIVE (18 MARKS)

a. Define the term "Relational database" (2 Mark)

b. Discuss FIVE factors to consider when choosing a database management system for an organization (10 Marks)

c. In a database named Joy Bakers, there exits TWO tables: Orders Table and Customers Table.
   Customers Table contains fields:
   - Customer Id
   - First Name
   - Last Name
   - Address
   - City
   - Phone Number

   Orders Table contains fields:
   - Order Id
   - Customer Id
   - Order date
   - Revenue per cake
   - Cakes ordered
   - Revenue
   - Order filled

   Using the information provided, answer the following questions:
   i. From the above information identify the Foreign Key and from which table is the foreign key (1 Mark)
   ii. State the importance of Customers Id in Orders Table (1 Mark)
   iii. What is the datatype of the field Revenue per cake (1Mark)
   iv. In order to query Joy Bakers database, a relationship has to be establish between the two tables. Explain how you would create a relationship between Customers Table and Orders Table (4 Marks)