JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

MAIN CAMPUS

1ST YEAR 2ND SEMESTER 2016/2017 ACADEMIC YEAR

COURSE CODE: SCS 114

COURSE TITLE: INTRODUCTION TO SPREADSHEETS AND DATABASES

EXAM VENUE: **STREAM: BBA**

DATE: **EXAM SESSION:**

TIME: 2.00 HOURS

INSTRUCTIONS:

1. Question 1 is Compulsory and ANY other two questions.
2. Candidates are advised not to write on the question paper
3. Candidates must hand in their answer booklets to the invigilator while in the examination room

QUESTION ONE

a) Define the term Spreadsheet. **[2 Marks]**

b) List TWO functions of a Spreadsheet. **[2 Marks]**

c) Name a popular Spreadsheet Package used today. [1 Mark]

d) Within a cell, there are three types of information that can be entered. Describe each and give an example **[3 Marks]**

e) Define the following database system concepts;

    i) Tuple **[2 Marks]**

    ii) Cardinality **[2 Marks]**

    iii) Relational database **[2 Marks]**

    iv) Attribute **[2 Marks]**

f) List the types of relationships that can be used to link relations in a database

    [3 Marks]

g) Explain the following terms as used in Microsoft excel: **[11Marks]**

    i) Title Bar

    ii) Menu Bar

    iii) Standard tool bar

    iv) Formatting toolbar

    v) Status Bar

QUESTION TWO

a) Briefly describe the following terms as they relate to Microsoft Excel:
    i) Cell **[2 Marks]**
    ii) Workbook **[2 Marks]**
    iii) Worksheet **[2 Marks]**
    iv) Range **[2 Marks]**
    v) Reference **[2 Marks]**
b) Describe TWO functions of a DBMS. **[6 Marks]**
c) Describe FOUR components of a DBMS. **[4 Marks]**

QUESTION THREE

a) In your own terms, briefly explain a chart. **[2 Marks]**
b) Name any FOUR types of charts you can create in Excel. **[4 Marks]**
c) Briefly explain the FOUR steps required when creating an excel chart. **[4 Marks]**
d) Below is a list of potential entities for a hotel database;

- Guest
- Room
- Outlet

Identify at least two attributes for each of these entities   **[6 Marks]**

e) Identify FIVE roles of the database administrator   **[4 Marks]**

QUESTION FOUR

a) Use the spreadsheet simulation illustrated below, to answer the questions:

	A	B	C	D	E	F
1	**Grocery Sale**	**TOMATOES**	**PEPPER**	**ONIONS**	**CABBAGES**	**CARROTS**
2	Mama Tom	120	35	45	89	145
3	Naku. Mega	145	70	31	71	128
4	Sun Beam	100	96	41	59	130
5	Ukwala supermarket	140	88	67	60	118
6	Jakinda	125	72	46	66	116

a) Provide the formula for finding:-
  i) Total tomatoes sold within all the grocery stores.   **[2 Marks]**
  ii) Lowest sale at Mama Tom's grocery store.   **[2 Marks]**
  iii) Average Onions sold within all the grocery stores.   **[2 Marks]**
  iv) Total sale for all fruits sold within all the grocery stores.   **[2 Marks]**
  v) Highest sale at Sun Beam's grocery store.   **[2 Marks]**
b) Explain five benefits of a database approach   **[10 Marks]**

QUESTION FIVE

a) Explain how you would carry out the following tasks while working on Spreadsheets:
                                                                          [**10 Marks**]

  i) Start a new Workbook
  ii) Rename a Worksheet
  iii) Insert a Worksheet
  iv) To save a Workbook
b) Explain **Four** database models   **[10 Marks]**