JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE &

TECHNOLOGY UNIVERSITY EXAMINATIONS 2012/2013

1ˢᵀ YEAR 2ᴺᴰ SEMESTER EXAMINATION IN BACHELOR

OF BUSINESS ADMINSTRATION WITH IT

(MAIN- SCHOOL BASED)

COURSE CODE: SCS 114

COURSE TITLE: INTRODUCTION TO SPREAD SHEETS & DATABASES

DATE: 30/8/13   TIME: 2.00 -4 .00 PM

DURATION: 2 HOURS

INSTRUCTIONS

1. This paper contains five (5) questions.

2. Answer question 1 (compulsory) and ANY other TWO questions.

3. Write all answer in the booklet provided.

Question One 30marks

a. Differentiate between data and information.   {3 marks}
b. Discuss the main differences between databases and spread sheets   {6 marks}
c. Name 2 application packages that can perform spread sheet functions   {2 marks}
d. Name 2 applications that can perform database management functions   {2 marks}
e. Briefly discuss the difference between bits, bytes, field, record, file and database
                                                                        {10 marks}
f. Outline 4 objects you will find in a common DBMS   {4 marks}
g. Outline 3 items you can insert in an excel worksheet using the insert tab. {3 marks}

Question Two 20marks

A worksheet contains the data as shown below

	A	B	C	D	E	F	G
1	5	10					
2	7	15					
3	10	17					
4							
5							
6							
7							
8							
9							
10							

a. The formula = COUNTIF {B1:B3, ">10"} was entered at G1.Write down the value that was displayed.   {2marks}

b. Write down the formula that would be entered at cell B7 to sum the values in column A whose values are greater or equal to 5.   {2marks}

c. The formula = $C2 + C$3 is entered in cell C5 and then copied to D10. Write down the formula as it appears in the destination cell.   {4marks}

d. What formula will sum all the numbers in the worksheet   {2 marks}

e. The Formula is written atB4 = if {A1=6, "false"," true"}. What would be the verbal translation of this formula?   {4 marks}

f. Discuss some of the shortcomings and limitations of current spreadsheets. {6 marks}

Question Three 20marks

a. Explain the main problems that resulted from the traditional file environment.

{10 marks}

b. Files need to be properly arranged and organised to facilitate easy access and retrieval of the information. Discuss the main ways of organising files in an organisation.
{8 marks}

c. Outline two types of files you may get in a computer system.   {2 marks}

Question Four   20marks

New concepts and technologies in database management and information systems are coming up. Briefly the five listed concepts/technologies   {20 marks}

   i.   Data Mining
   ii.   Open Source
   iii. HTML
   iv.   Data Warehousing
   v.   Search Engines

Question 5 20marks

A student as an object has many properties that could be defined in a database. Further the student has relationship with other objects usually lecturers and lecture rooms. Using your knowledge in database creation choose some characteristics of students, lectures and lecture rooms and discuss what tables you would create, the definitions you would give each property in Microsoft access and the relationships you would set.   {20 marks}