GWANDA STATE UNIVERSITY

FACULTY OF LIFE SCIENCES

DEPARTMENT OF ANIMAL SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE

INTRODUCTION TO COMPUTER SCIENCE

LCS 1102

First Semester Final main Examination Paper

June 2019

This examination paper consists of 3 pages

Time Allowed: **3 hours**

Total Marks: **100**

Special Requirements: **None**

Examiner's Name: **Mr. F. Bhebhe**

INSTRUCTIONS

1. Answer **all** questions in Section A

2. Answer **two** questions in Section B

MARK ALLOCATION

QUESTION	MARKS
SECTION A	60
SECTION B	40
TOTAL ATTAINABLE MARKS	100

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SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION 1

Explicitly explain all the necessary steps one would take to professionally set up a cattle fattening venture using Tambero. **[20]**

QUESTION 2

"A farmer can do more by using Stockbook as compared to Tambero." Critique the above statement. **[20]**

QUESTION 3

You have been asked to analyse the rainfall pattern of your farming area. The following data, which shows the average weekly and monthly rainfall, has been provided. **[20]**

Table 1

Weekly rainfall in millimetres:

MON	TUE	WED	THUR	FRI	SAT	SUN
10	5	30	20	15	0	50

Table 2.

Monthly Rainfall in millimetres:

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
30	25	55	100	60	40	35	60	35	25	20	10

a.   Enter Table 1 and Table 2 into Microsoft Excel and Save as **Filabusi Farm. [4]**
b.   Using the most appropriate formulae and functions:

i. Calculate the total rainfall for the week and the year respectively. **[4]**

ii. Find the lowest rainfall for the week and the year respectively. **[2]**

iii. Find the highest rainfall for the week and the year respectively. **[2]**

iv. Find the mean rainfall for the week and the year respectively. **[4]**

c. Create a 3-D column chart for Table 1. The title for the graph should be **AVERAGE DAILY RAINFALL**. The title for the X-axis should be **DAY** while that of the Z-axis should be labelled as **RAINFALL (mm).** The chart should be inserted as an object within the worksheet. **[4]**

SECTION B: ANSWER TWO QUESTIONS IN THIS SECTION

QUESTION 4

a. Explain the use of a server in a computer networked environment. **[5]**

b. Detail how an organisation can counter the threat of the entire network collapsing due to a network server which would have gone down. **[10]**

c. Outline the limitations of a computer network with no server present. **[5]**

QUESTION 5

a. Explain the following terms:
   i. Persware **[3]**
   ii. Hardware **[3]**
   iii. Software **[3]**

b. Differentiate between a task specific application and a generic application. **[6]**

c. "Hardware is controlled by the software." Expound. **[5]**

QUESTION 6

Outline why a company with offices and employees in almost every country global would go for a mainframe as its main computer system. **[20]**

END OF EXAMINATION