



MAASAI MARA UNIVERSITY

UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR

SCHOOL OF SCIENCE AND INFORMATION SCIENCES

(REGULAR)

**THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

COURSE CODE: COM 3207

COURSE TITLE: COMPUTER APPLICATIONS II

DATE:29/4/2019

TIME: 0830-1030

INSTRUCTIONS TO CANDIDATES

- ANSWER Question **ONE** and any other **TWO**

QUESTION ONE

- a) Explain the evolution of the acronym Statistical Package for Social Sciences to Statistical Package and Service Solutions.

[6mks]

- b) Outline the steps through which data values can be modified when using the SPSS software.

[4mks]

- c) Distinguish between a data - *variable* and a *case* as used in research data analysis.

[4mks]

- d) Assume that your research assistant has collected the following data sheet in excel; discuss each variable data definition and state any two structural rules and content rules that must be adhered to in order to allow the sheet to be read into SPSS.

Registered Name	Gender	AGE
Phebe Johns	F	26
Amanda Junet	M	345
Wilberforce Obama		14
Willis Hotck	M	56

[8mks]

- e) Consider the following code syntax:

```
FREQUENCIES  
VARIABLES = age  
/BARCHART FREQUENCIE  
/ORDER= ANALYSIS
```

Explain by showing the output and the tasks performed by the syntax above (Be creative)

[8mks]

QUESTION TWO (20 MARKS)

- a) Assume you are handling a bank dataset containing '*to_loan*' and '*not_to_loan*' variables with data values of clients who are either approved for loans and/or otherwise. Define how you would obtain the distribution of the two variables in order to analyze and process the data. Use an example to demonstrate your output.

[12mks]

- b) Explain the procedure for creating a bar-chart to represent the information provided for the two variables in (a) above. Use examples.

[8mks]

QUESTION THREE (20 MARKS)

- a) What do you understand by a '*missing value*' in data analysis, and discuss any two types of missing values in statistical analysis using examples.

[6mks]

- b) Explain why it is not advisable to use frequency tables in summarizing continuous data variables and describe a procedure to show how continuous variables can be analyzed using SPSS package.

[14mks]

QUESTION FOUR (20 MARKS)

- a) VLOOKUP and HLOOKUP are two commonly used functions in Ms Excel. Describe the use of these functions giving an example of how each one of them can be implemented.

[8mks]

- b) Discuss the following date and time functions using examples:

- i. Aggregate functions
- ii. Conversion function (*ctime*),
- iii. *yrmoda* (year month day),
- iv. Extraction function (*xdate*),
- v. Date difference (*datediff*) and
- vi. Datesum function

[12mks]