



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS

ADMINISTRATION WITH IT (FINANCE OPTION, S M C & HR)

3RD YEAR 2ND SEMESTER 2017/2018 ACADEMIC YEAR

NAIROBI, KISII, NAMBALE CAMPUSES

COURSE CODE: SCS 324

COURSE TITLE: STATISTICAL ANALYSIS WITH SPSS

EXAM VENUE: STREAM (MA)

DATE: 06/12/2018

EXAM SESSION: 12.00-2.00PM

TIME:

2.00 HOURS

INSTRUCTIONS:

- 1. Answer Question 1 (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 (30 MARKS)

- a) Clear define the following terms.
- i. Statistics (1 Mark)
 - ii. Statistics Analysis (1 Mark)
 - iii. SPSS. (1 Mark)
 - Iv Central tendency (1 Mark)
- b) State and briefly explain the three main components of SPSS for creating data files, analyzing the data and viewing the results of those analyses. (6 Marks)
- c) Distinguish between the following terms
- i. Data View and Variable view windows (1Mark)
 - ii. Dependent Variable, Independent Variable and Moderator Variable (4 Marks)
- d) Describe FOUR measurement levels to the data as used in statistical analysis with SPSS (4 Marks)
- e) There are two types of label in SPSS data view window. List and briefly describe them (3 Marks)
- f) Briefly describe the following statistical analysis and give example of each(4 Marks)
- i. Descriptive Analysis (2Mark)
 - ii. Inferential Analysis (2Mark)
- g) There are various software packages to perform statistical data analysis. State two of these packages. (1 Mark)

QUESTION TWO (20 MARKS)

- h) Briefly explain the following type of tests: (4Marks)
- i. Parametric test
 - ii. Non-parametric tests
- i) State some of the common shared features of statistical software packages. (3 Marks)
- j) Explain the procedures for creating a Data File in the Data Editor using SPSS. (5 Marks)
- i) Describe the following types of statistical Tests. (4 Marks)
- i. Analysis of variance (ANOVA)
 - ii. Chi-squared test
 - iii. Correlation
 - iv. Factor analysis
- k) Use a diagram to briefly describe and distinguish between Normal distributions and Skewed distributions. (4 Marks)

QUESTION THREE (20 MARKS)

- a) Discuss general linear model and how it is presented in statistical analysis (4 marks)
- b) Explain the process of sorting data in SPSS (5marks)
- c) Explain the steps of generating frequencies tables in SPSS (4marks)
- d) Discuss three challenges that people using SPSS usually face as they analyze data (3marks)
- e) List four rules for variable names in SPSS (4 marks)

QUESTION FOUR (20 MARKS)

- a) Define the term Linear Regression Analysis (1 Marks)
- b) The following Model Summary table shows the output that was obtained after performing the Linear Regression Analysis. Interpret the result. (3 Marks)

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.873 ^a	.762	.749	874.779

- c) State four basic statistical concepts (4 Marks)
- d) Differentiate between Reliability and Validity tests (2 Marks)
- e) The first step in data analysis is to generate descriptive statistics. This will give us a feel for the data. It will also help identify any inconsistencies that may be in the data. This is sometimes called data cleaning. List the common techniques that are used to do this. (4 Marks)
- f) The following Chi-Square test as per the table was performed and the output obtained as captured below. Interpret the result. (6 Marks)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	13.420 ^a	1	.000		
Continuity Correction ^a	12.441	1	.000		
Likelihood Ratio	13.626	1	.000		
Fisher's Exact Test				.000	.000
Linear-by-Linear Association	13.361	1	.000		
N of Valid Cases	228				

QUESTION FIVE (20 MARKS)

- a) Explain the process of doing the following in SPSS
 - i. setting variables (2marks)
 - ii. Creating a file (2marks)
 - iii. Deleting variables (2marks)

- b) Explain factor analysis and its importance in statistical analysis (4 marks)
- c) Using examples, Define the following terms
- i. A-Case (1marks)
 - ii. Dataset (1 marks)
 - iii. Data editor (1 marks)
 - iv. Variables (1 marks)
- d) List three data types that need to be set when using SPSS (3 marks)
- e) Explain linear regression and two variables when dealing with it (3 marks)