



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS & INNOVATIVE SYSTEMS
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS
ADMINISTRATION WITH IT
3RD YEAR 2ND SEMESTER 201/2016 ACADEMIC YEAR
KISII CAMPUS-PART TIME**

COURSE CODE: SCS 324

COURSE TITLE: STATISTICAL ANALYSIS WITH SPSS, BBA WITH IT

EXAM VENUE: STREAM: (BBA)

DATE: EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer Question ONE (COMPULSORY) and ANY other 2 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 1.

- a) Briefly explain the following concepts as applied in SPSS statistical analysis;
- i) Data view window (4 marks)
 - ii) Reliability analysis(4 marks)
 - iii) T-test (4 marks)
 - iv) Variable generation (4 marks)
- b) i) Identify and explain any five major errors that may arise when analyzing data using SPSS. (10 marks)
- ii) How would you deal with the above errors? (4 marks)

QUESTION 2.

- a) Define the term non-parametric test. (2 marks)
- b) Identify and explain any four non-parametric tests that would be used in SPSS analytical procedures (12 marks)
- c) Provide practical situations where one would apply non-parametric tests. (6 marks)

QUESTION 3.

Suppose you have been appointed as a statistician in KTDA, a company that is involved in the auctioning of tea on behalf of tea farmers. The board of directors wants to establish why it is facing declining profits in the last four months. This trend has affected farmers in a number of regions in the country leading to strikes.

- a) Using appropriate examples describe logically how you can undertake the analytical process using SPSS to unearth the problem.(14 marks)
- b) How would the results out of your analysis assist KTDA to reverse the current trend in profits and pay to farmers? (6 marks)

QUESTION 4.

- a) Define the term data reduction (2 marks)
- b) Using appropriate examples explain the process of data reduction (12 marks)
- C) Provide practical situations where one would apply data reduction. (6 marks)

QUESTION 5.

a) A sample survey was carried out among 10 workers in a company that was experiencing low productivity despite being in production business for many years and having installed new operation machines recently. After analysis, the following results were found out (table below);

Correlations

		present salary of the worker	experience of the worker in years	academic qualification of the worker	age in years
present salary of the worker	Pearson Correlation	1	.672(*)	-.306	.696(*)
	Sig. (2-tailed)	.	.033	.389	.025
	N	10	10	10	10
experience of the worker in years	Pearson Correlation	.672(*)	1	-.193	.844(**)
	Sig. (2-tailed)	.033	.	.593	.002
	N	10	10	10	10
academic qualification of the worker	Pearson Correlation	-.306	-.193	1	-.391
	Sig. (2-tailed)	.389	.593	.	.264
	N	10	10	10	10
age in years	Pearson Correlation	.696(*)	.844(**)	-.391	1
	Sig. (2-tailed)	.025	.002	.264	.
	N	10	10	10	10

* Correlation is significant at the 0.05 level (2-tailed).

** Correlation is significant at the 0.01 level (2-tailed).

Using your knowledge in SPSS,

i) Interpret the results.(12 marks)

ii) Give possible recommendations (4 marks)

b) Identify and describe any four types of files that can be used to store data in SPSS.(4 marks)