



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF EDUCATION**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF  
EDUCATION/ BA INTERNATIONAL RELATIONS AND DIPLOMACY**

**3<sup>RD</sup> YEAR 2<sup>ND</sup> SEMESTER 2018/2019 ACADEMIC YEAR**

**KISUMU/NAIROBI/KISII CAMPUSES**

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**COURSE CODE: SCS 324**

**COURSE TITLE: STATISTICAL ANALYSIS WITH SPSS**

**EXAM VENUE:**

**DATE: 16/08/19**

**EXAM SESSION: 2.00 – 4.00PM**

**TIME: 2.00 HOURS**

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**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) Data analysis is a culmination of a set of activities. Using relevant examples discuss these activities [10 Marks]
- b) Variables form an important part of data analysis. However, when describing variables it is important to define its measures. Explain the **FOUR** measures of variables. [8 Marks]
- c) Using examples elucidate on the difference between measure of central tendency and measure of dispersion. [8 Marks]
- d) Contrast between data view and variable view in SPSS program. [4 Marks]

### QUESTION TWO – 20 MARKS

You are selected to be part of a team which is conducting a research on “the effect of e learning on concentration of student in class”

Required

- i) Formulate **ONE** main objective and **THREE** specific objectives for this study. [8 Marks]
- ii) Describe the null hypothesis for the study and explain how you would interpret alternative non directional and directional hypothesis for the study above. [8 Marks]
- iii) Define validity and reliability of data. Using relevant examples how you will ensure validity and reliability in this study. [6 Marks]

### QUESTION THREE – 20 MARKS

- a) Give a set by step procedure of opening SPSS in windows environment. [5 Marks]
- b) In one of the assignments you are required to measure age of students and their shoe size. Which statistical tool available in SPSS will best suit this study? Give reasons for your answer. [5 Marks]
- c) Based on question b above what procedure will you undertake to yield your results and how will you interpret these results. [10 Marks]

### QUESTION FOUR – 20 MARKS

- a) A researcher has categorized juvenile delinquents into three categories, based on population density; urban delinquents, suburban delinquents and rural delinquents. The researcher wants to know if there is a difference in receptive rates between the three categories.
  - i) Formulate a suitable research topic based on the given variables
  - ii) Draw a table with suitable categorization of the desirables
  - iii) What function in SPSS should be used? (20mks)

### QUESTION FIVE- 20 MARKS

- a) Explain by giving examples some of the tools you are aware of that are used in a descriptive research to collect data for further analysis. (10mks)
- b) SPSS is statistical software for data analysis. Why is it important to use SPSS? (10mks)