KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF MASTER OF ARTS IN CRIMINOLOGY
FIRST SEMESTER, 2021/2022
(JUNE-SEPTEMBER, 2022)**

SCR 802: SOCIAL STATISTICS

STREAM: Y1 S1   **TIME: 3 HOURS**

DAY: THURSDAY, 2:00-5:00 PM   **DATE: 06/10/2022**

INSTRUCTIONS
1. *Do not write anything on this question paper.*
2. *Answer Question ONE [Compulsory] and any other TWO Questions.*

1. (a) Differentiate between

    i) Population and sample   (2marks)

    ii) Descriptive and Inferential Statistics   (2marks)

    iii) Primary and Secondary data   (2marks)

    iv) Cluster and stratified sampling   (2marks)

(b) Explain by use of relevant examples the application of social statistics in social sciences.   (12marks)

(c) What are the advantages of suing primary data over secondary data in social research?   (10marks)

2. By use of grouped data below, calculate

(a) Modal class   (2marks)

(b) Median   (6marks)

(c) Mean   (2marks)

X	F
1 – 15	4
16 – 30	1
31 – 45	7
46 – 60	9
61 – 75	2
76 – 90	5
91 – 105	2

3. Kenyans voted for the new constitution overwhelmingly, the following is a tableshowing the voting patterns among male and female in a given village

GENDERVOTING PATTERNS

	YES	NO
MALE	**8**	**18**
FEMALE	**10**	**14**

Calculate the chi-square value

4. A lecturer at Kisii University administered statistics and research methods examinations and obtained results in the table below

Statistics	Research Methods
8.5	5.8
4.3	3.6
5.6	4.0
2.2	1.5
6.5	6.3
8.2	7.5
9.7	8.0
1.0	2.2
3.5	3.1
5.3	3.0

Required:
Calculate rxy

5. (a) Discuss the various types of measurement scales in social statistics and show their importance in data analysis.

(b) Calculate variance and standard deviation of

Xf

2	1
5	1
6	1
7	1
8	1

6. (a) The following is a table showing marks in a given a exam

Marks	**Frequency**
2 – 4	2
5- 7	4
4-10	6
11- 13	12
14 – 16	7
17 -19	6
20 -22	4
23 – 25	3
26-28	1
29-31	1

REQUIRED

From the data, draw frequency polygon.   (10marks)

(b) As social researcher what are key things you are supposed to put in place before proceeding for actual data collection exercise.   (10marks)