



**KIBABII UNIVERSITY COLLEGE**

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**UNIVERSITY REGULAR EXAMINATIONS**

**2014 /2015 ACADEMIC YEAR**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATIONS**

**MAIN**

**2 HOURS**

**DIPLOMA IN SOCIAL WORK AND COMMUNITY DEVELOPMENT**

**COURSE CODE:** DCR 064/DSC 064

**COURSE TITLE:** SOCIAL STATISTICS

**DATE:** DECEMBER, 2014

**TIME:**

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**INSTRUCTION TO CANDIDATES**

Answer Question ONE and any other TWO Questions

1. (a) Differentiate between
  - i) Population and sample (2mks)
  - ii) Descriptive and Inferential Statistics (2mks)
  - iii) Primary and Secondary data (2mks)
  - iv) Cluster and stratified sampling (2mks)

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

(b) What are the advantages of using primary data over secondary data in social research (10mks)
2. By use of grouped data below, calculate
  - (a) Modal class (2mks)
  - (b) Median (6mks)
  - (c) Mean (2mks)

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 table showing the voting patterns among male and female in a given village

<b>GENDER</b>	<b>VOTING PATTERNS</b>	
	<b>YES</b>	<b>NO</b>
MALE	8	18
FEMALE	10	14

Calculate the chi-square value

4. A lecturer at Nairobi Institute of Open Learning 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
5.0	3.0

Required

Calculate  $r_{xy}$

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

X	f
2	1
5	2
6	1
7	1
8	1

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

Marks	Frequency
2 – 4	2
5- 7	4
8 -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 (10mks)

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