



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
UNIVERSITY EXAMINATION FOR MASTER OF ARTS IN GEOGRAPHY
YEAR 1 SEMESTER 1 2016/2017 ACADEMIC YEAR

KISUMU LEARNING CENTRE

COURSE CODE: NGE 802

COURSE TITLE: QUANTITATIVE TECHNIQUES

EXAM VENUE: STREAM

DATE: EXAM SESSION:

TIME: 3 HOURS

Instructions:

- 1. Answer any THREE 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.**

NB: Formulae and Table of critical values of Chi Square are attached at the end

1. Examine the significance of Quantitative techniques in geographical studies.
2. The following table shows the distribution of fish landed at Usigu Beach over a period of 200 days. Use the data in the table below to answer the questions which follows:

Weight (Kg)	Frequency
111 – 120	10
121 – 130	13
131 – 140	24
141 – 150	14
151 – 160	30
161 – 170	40
171 – 180	34
181 – 190	20
191 – 200	15

- a. Estimate the mean, mode, median and mean deviation of the fish landed
 - b. Comment on the limitation of mean as a measure of central tendency.
3. A sample of 200 people with malaria disease was selected from Bondo Subcounty Hospital. Out of these, 100 were given a new drug and others were not given any drug. The results were as follows:

	Number of people	
	Drug	No drug
Cured	65	55
Not cured	35	45

Use a suitable statistical application to test whether the drug is effective or not.

4. Examine critically the philosophical assumption of quantitative paradigm in social science

5. In an investigation into the relationship between the age of the husbands and age of wives at the time of marriage are shown in the figure below:

Age of husbands (in years)	Age of Wives (in years)
38	29
35	28
23	18
27	20
33	29
30	27
30	29
28	21
28	27
28	22

Estimate the coefficient of product moment correlation and provide its interpretation.