

UNIVERSITY EXAMINATIONS 2012/2013

FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREES OF BACHELOR OF ARTS IN SOCIOLOGY & ANTHROPOLOGY WITH INFORMATION TECHNOLOGY (HOMA BAY CAMPUS)

ASO 112: INTRODUCTION TO SOCIAL STATISTICS

Date: 20th July, 2013 Time: 2.00 - 4.00 p.m.

ASO 112: INTRODUCTION TO SOCIAL STATISTICS HOMABAY TOWN LEARNING CENTRE YEAR ONE SEMESTER TWO

Answer Any THREE Questions.

 From the following distribution, calculate the median, mean deviation and its coefficient. (23.3 Marks)

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Age	Illness prevalence	
45-50	10	
40-45	15	
35-40	26	
30-35	30	
25-30	42	
20-25	31	
15-20	24	
10-15	15	
5-10	7	

a) From the following distribution, calculate the quartile deviation and its coefficient. (10 Marks)

Class	Frequency	
0-10	7	
10-20	12	
20-30	18	
30-40	25	MASSING
40-50	16	1811
50-60	14	
60-70	8	

b) Discuss the various parts of a table. (13.3 Marks)

 Using suitable illustrations, discuss the concepts skewness and kurtosis bringing out their various graphical representations. (23.3 Marks)

- 4. Calculate the standard deviation, variance and the coefficient of
- · variation of the following distribution.

(23.3 Marks)

Number of persons
4
7
11
12
6
10

The following table gives the number of companies operating in Nyanza and Mombasa according to the profits they made. Draw in the same diagram their Lorenz curves and interpret them. (23.3 Marks)

Profits earned (\$ 000)	Number of companies	
	Nyanza	Mombasa
8	6	2
25	11	38
60	13	52
84	14	28
105	15	38
150	17	26
170	10	12
400	14	4

 Discuss the various areas of applicability of statistics in the Kenyan society. (23.3 Marks)