CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE IN COMMUNITY DEVELOPMENT

SOCI 302: SOCIAL STATISTICS 1

STREAMS: CDEV (ODEL)

TIME: 2 HOURS

DAY/DATE: TUESDAY 5/10/2021 8.30 AM – 10.30 AM

INSTRUCTIONS TO CANDIDATES:

- Answer Question One (COMPULSORY) and any other TWO questions
- DO NOT WRITE ANYTHING on the question paper.
- 1. a) Distinguish the following terms as used in social statistics. [12 Marks]
 - (i) Population and sample
 - (ii) continuous variable and discrete variable
 - (iii) Parameter and statistic
- b) Explain the four (4) types of scales of measurement.

[16 Marks]

2. The following table shows the number of children per family in a housing estate

Number of children	0	1	2	3	4	5	6
Number of families	1	5	11	27	10	4	2

- (i) Calculate
- a) The mean number of children per family

[3 Marks]

SOCI 302

b)	The variance												
b)	The standard deviation												
c)	The standard deviation												
d)	The median												
(ii)	Draw the cumulative frequency graph.												
3.	The Masses, to the nearest kg, of 50 adults were recorded as follows:												
Mass (kg)	45-50	51-56	57-62	63-68	69-74	75-80						
Freque		2	10	11	20	6	1						
(i) a) b) c)	6 th d	nterquartile i ecile percentile	range					[7 Marks] [3 Marks]					
(ii)	Calculate mean absolute deviation for the above data.												
4a)	Differentiate the following terms.												
(i)	Descriptive statistics and inferential statistics												
(ii)	Quantitative data and qualitative data												
b)		probability t			ngainst B is 2	2/5. If the ho	orses run	3 races in					
(i)	horse B wins all the races												
(ii)	horse A wins only 1 race												
(iii)	horse A wins at least 1 race												
(iv)	hors	e B wins mo	re races than	horse A				[3 Marks]					