

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS
EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF
CPSY 802: STATISTICAL METHODS IN BEHAVIOURAL SCIENCES
STREAMS: M CPSY
TIME: 3 HOURS
DAY/DATE: WEDNESDAY 4/12/2019
11.30 P.M – 1.30 P.M

INSTRUCTIONS
Answer question one and any other two questions
Do not write on the question paper

1. (a) Describe the four scales of measurement . [8 marks]
- (b) A study was conducted to determine effects of room colour on stress level. Represent the data generated in the table below on a bar graphy. [6 marks]

Colour	white	Red	Blue	Green	Black	Yellow
Stress level	30	70	20	50	90	60

- (c) Explain the following types of statistics giving examples in each case.[6 marks]
- (i) Descriptive
- (ii) Inferential
- (iii) Correlational
2. (a) Determine the self esteem level of a client who attend 17 hours of personal therapy. [10 marks]

Hours	10	8	14	9	11	16
Levels of self esteem	64	60	88	72	77	92

- (b) Discuss any five characteristics of correlation. [10 marks]

3. The following data was collected from a psychological research

Class	20 -29	30 -39	40 -49	50 -59	60 -69
Frequency	72	60	93	45	50

- (i) Determine the range [2 marks]
- (ii) Compute the mode [3 marks]
- (iii) Work out the median [4 marks]
- (iv) What is the mean [3 marks]
- (v) Calculate the standard deviation. [4 marks]
- (vi) Explain the main advantage of the mean over median. [4 marks]

4. (a) Using data in the table below, test the hypothesis that there is no difference between the groups in the table below. [10 marks]

A	B	C	D
47	47	47	48
48	46	48	46
47	47	46	47
45	46	47	47
47	47	48	47
45	46	46	48

(b) An experiment was conducted using the control and experimental groups. Test the hypothesis that there is no difference between the two groups. [10 marks]

Control	3	7	6	10	4	9
Experimental	5	7	3	7	8	5
