KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF EDUCATION IN EARLY CHILDHOOD EDUCATION SECOND SEMESTER, 2021/2022 (FEBRUARY - JUNE, 2022)

EPSC 123: STATISTICAL METHODS IN EDUCATION

STREAM: Y1 S2   **TIME: 2 HOURS**

DAY: WEDNESDAY, 3:00 – 5:00 P.M.   **DATE: 25/05/2022**

INSTRUCTIONS
1. ***Do not write anything on this question paper.***
2. ***Answer Question ONE [Compulsory] and any other TWO Questions.***

1) Define the following terms as used in Measurement and Evaluation

a) Measurement   (2 marks)

b) Measure of central tendency   (3 marks)

c) Evaluation   (3 marks)

d) Z scores   (4 marks)

e) Nominal scale, discrete scale and ratio scale   (6 marks)

f) A variable   (3 marks)

g) Descriptive Statistics and Inferential Statistics   (6 marks)

h) Hypothesis   (3 marks)

Q 2 a) Develop and explain all levels of measurements   (10 marks)

b) Identify measures of variability and state their value in statistics (10 marks)

Q 3 a) Analyze the following distributions;   (12 marks)

   a) Normal

   Ii) Platykurtic

   iii) Skewed

   b) Explain factors that determine the choice of data presentation (8 marks)

   b) What is a sample?   (2 marks)

   ii) Identify and explain four methods of sampling   (8 marks)

Q 5

   a) Four students did a test in two subjects , x and y as shown in the table
       below

Subject x	30	40	50	70
Subject y	3	3	4	6

   i) Compute the correlation co-efficient of the scores in the two subjects.
                                                          (8 marks)

       ii) What is your comment on the a above result   (2 marks)

   b) How does a teacher ensure reliability in a subject   (4 marks)

   C) Synthesize the role of statistics in three disciplines   (6 marks)