



KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF THE
POSTGRADUATE DIPLOMA IN EDUCATION
FIRST SEMESTER, 2021/2022
(FEBRUARY - JUNE, 2022)

PGDE 704: STATISTICAL METHODS IN EDUCATION

STREAM: Y1 S1

TIME: 2 HOURS

DAY: MONDAY, 9:00 – 11:00 A.M.

DATE: 16/05/2022

INSTRUCTIONS

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

QUESTION ONE

- Distinguish between;
 - Descriptive and inferential statistics
 - Population and sample
 - Parameters and statistics
 - Intervening and moderating variables (8 marks)
- Highlight six reasons why researchers conduct educational research (12marks)
- Outline the typical stages in research (10 marks)

QUESTION TWO

- Using examples, discuss five reasons why thorough literature review should be undertaken in educational research. (10 marks)
- Briefly explain the steps followed when testing hypothesis. (5 marks)

QUESTION THREE

- a) Fifty students in class were asked to indicate the number of books each had read in a particular year. The results are shown in the following frequency distribution table

No. of books 0 1 2 3 4 5 6 7 8

No. of students 5 5 6 9 11 7 4 2 1

Calculate;

- i. Mean Number of books per students
 - ii. Range
 - iii. Standard deviation (10 marks)
- b) Explain the rationale of pre- testing a questionnaire in research. (5 marks)

QUESTION FOUR

- a) Using examples, critically explain the commonly used sampling techniques (10 marks)
- b) Give advantages of one of the sampling techniques mentioned above (5 marks)

QUESTION FIVE

- a) Discuss four types of research design studied in this course (5 marks)
- b) Explain five features of a good research design (10 marks)