



COLLEGE OF SOCIAL SCIENCES, THEOLOGY, HUMANITIES & EDUCATION

NHPS 148/PSY 1204: Statistics in Psychology and Social Sciences

END OF SECOND SEMESTER EXAMINATIONS

APRIL/MAY 2026

LECTURER: DR. M. KWEMBEYA

DURATION: 3 HOURS

INSTRUCTIONS

1. This paper contains **TWO** sections (Section A and Section B).
 2. Section A is **COMPULSORY**.
 3. Answer **ANY TWO (2) questions** from Section B.
 4. Start each question on a new page in your booklet.
 5. Credit will be awarded for logical, systematic and neat presentation
 6. Do not repeat material.
 7. You are **required** to bring and use a silent, non-programmable scientific calculator for this examination.
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SECTION A: COMPULSORY

INSTRUCTION: *Answer Question 1.*

Question 1

The mid-term test for a statistics course has a time limit of 1 hour. However, unlike most statistics exams this one was quite easy. To assess how easy, the Professor recorded the amount of time taken by a sample of nine students to hand in their test papers. The times are:

38; 26; 45; 60; 43; 19; 53; 38; 38

- a). Calculate the mean and interpret it. (20 marks)
- b). Give 2 advantages of the mean (10 marks)
- c). Give 2 limitations of the mean (10 marks)

[40 marks]

SECTION B

INSTRUCTION: *Answer ANY TWO (2) questions.*

Question 2

A psychologist wanted to establish the average time taken by students with mild mental retardation to build a block obtained the following data:

Ages	1-5	6-10	11-20	21-25	26-40	41-50	51-60
Frequenc y	2	3	6	12	4	3	2

- (a) Use the histogram to represent the data (20 marks)
- (b) Estimate the mode from the histogram (10 marks)

[30marks]

Question 3

With the aid of a diagram, explain the characteristics of a normal distribution curve. **[30 marks]**

Question 4

Reflect on emerging trends and technologies in the field of psychological statistics, such as the use of artificial intelligence and online assessments. Discuss the potential advantages and challenges these innovations may bring to statistical results significance. **[30 marks]**

Question 5

a). Distinguish between Statistical Significance and Clinical (or Practical) Significance. **(10 marks)**

b). Why is it an ethical failure to report one without the other when communicating with the public? **(20 marks)**

[30 marks]

END OF PAPER