

University of Fort Hare
Department of Psychology
East London Campus

PSY 529E
Psychometrics

MAIN EXAMINATION
OCTOBER/NOVEMBER 2019

Time: 3 hours
Subject: Psychometrics
Total Marks: 100

This examination paper consists of 3 pages, including the cover page.

Internal Examiners

Prof J Kheswa
Dr M Makupula
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External Examiner

Prof R. Van Niekerk

INSTRUCTIONS

1. Write your student number, surname and initials on the Examination Booklet provided.
2. This paper consists of 7 Questions.
3. Questions 1 and 2 are compulsory.
4. Answer either Question 3 or 4.
5. Questions 5, 6 and 7 are compulsory.

Question 1

Your classmate makes the following statement: "Tests are useless in South Africa." Do you agree or disagree with this statement? Motivate your Answer (15)

Question 2

A motor manufacturer developed the Technical Aptitude Test as part of their selection battery for potential trainees. Two forms of the test, namely Form A and Form B were developed to prevent cheating when testing large groups of candidates.

The test-retest reliability coefficients for the two forms are 0.68 and 0.70. The alternate form reliability coefficient for the test is 0.45.

2.1 Define Reliability. /5/

2.2 Explain how test-retest reliability is determined. /10/

2.3 Explain how alternate form reliability is determined. /5/ (20)

(Choose either Question 3 OR Question 4.)

Question 3

3.1. Define career counselling. /5/

3.2. Discuss the career counselling process and the role of assessment therein. /15/ (20)

OR

Question 4

Please read the case study, and answer the question that follows:

Case Study:

A first-year university student approaches the student counselling center disclosing that she is having difficulty in performing academically in her degree program. She requests an assessment to help her uncover the factors impacting on her academic performance.

She is an African student who was raised and educated in a rural village before moving to a multicultural school in the city in Grade 9 where she was educated in English. Her first language is isiXhosa, although she is able to communicate effectively in English. She was an above average student in high school, but is now doing poorly in her courses and finds it difficult to concentrate. The psychologist assigned to the case wants to explore intellectual, achievement and personality factors.

Discuss the factors that the psychologist should be aware of in order to provide non-discriminatory assessment to the student and maximize the chances of producing a competent evaluation. (20)

(Answer Questions 5, 6 and 7)

Question 5

Teenagers taking an IQ test today score better than teenagers who took the exact same test 20 years ago, which is in part due to greater test sophistication.

Discuss the effects of low test sophistication and suggest how this may be addressed. (15)

Question 6

Distinguish between structured [10] and projective personality [10] assessment methods and provide an example of each. (20)

QUESTION 7

You have just assessed five (5) students on the SSAIS-R intelligence test. Their results were as follows: (10)

Candidate number	IQ
1	96
2	104
3	126
4	134
5	140

7.1 What is the mean? (Please show all steps involved in working out the mean in order to get the marks). /2/

7.2 What are the respective deviations from the mean? (Remember to include the variance and standard deviation in your answer. /8/

TOTAL: 100 MARKS – END OF EXAM

