

THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL
DIPLOMA IN SECONDARY EDUCATION EXAMINATION

762

EDUCATIONAL RESEARCH, MEASUREMENT AND
EVALUATION

Time: 3 Hours

Tuesday, 12th May 2009 a.m.

Instructions

1. This paper consists of sections A, B and C.
2. Answer **all** questions in section A, **two (2)** questions from section B and **two (2)** questions from section C.
3. Question **11** is compulsory.
4. Sections A and B carry 40 marks each and section C carries 20 marks.
5. Cellular phones are **not** allowed in the examination room.
6. Write your **Examination Number** on every page of your answer booklet (s).

This paper consists of 3 printed pages.

SECTION A (40 Marks)

Answer all questions in this section.

$\frac{71}{28} \times 100$
4 ✓

$\frac{28}{7} \times 100$
4

- ✓ (a) Define reliability of a test.
- ✓ (b) Which three (3) characteristics can reduce the reliability of a test considerably?
- ✓ (a) Define validity of a test.
- ✓ (b) Which three (3) characteristics can reduce the validity of a test considerably?
- ✓ 3. Tabulate the advantages and disadvantages of an interview as a research tool for data collection.
- ✓ 4. Differentiate educational measurement from educational assessment.
- ✓ 5. Give a short description of each of the four (4) scales of measurement in education.
- ✓ 6. Identify two (2) advantages and two (2) disadvantages of using an interview as a research tool for data collection.
- ✓ 7. In what ways does a criterion referenced measurement differ from a norm referenced measurement?
- 8. Give four (4) characteristics of a good hypothesis.
- ✓ 9. What is the difference between educational measurement and educational evaluation?
- ✓ 10. What is a standardized achievement test?

SECTION B (40 Marks)

Answer two (2) questions from this section.
(Question 11 is compulsory)

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$\frac{X-X}{90}$
2 score
11

Convert the following raw scores obtained from a Science test into standard T-scores using a new standard deviation of 10 and a new mean of 50.

Raw scores: 54, 56, 86, 81, 50, 52, 67, 72, 65
3 4 9 1 2 5 7 5

- ✓ 12. (a) Prepare a Table of Specifications for a Civics test to cover the following topics:
 - (i) Democracy (one question on evaluation and three on synthesis)
 - (ii) Globalization (two questions on comprehension and four on analysis)
 - (iii) Gender (three questions on knowledge and two on application)
 - (iv) Life skills (four questions on synthesis and three on evaluation)
 - (v) Free market (two questions on analysis and four on knowledge)

$\frac{2}{28} \times 100$

$\frac{2}{28} \times 100$
 $\frac{4}{7} \times 100$
14.2

