

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

762

**EDUCATIONAL RESEARCH, MEASUREMENT AND
EVALUATION**

Time: 3 Hours.

Wednesday, 10th May 2017 a.m

Instructions

1. This paper consists of sections A and B with a total of **sixteen (16)** questions
2. Answer **all** questions in sections A and **four (4)** questions from section B.
3. Question **11** is **compulsory**.
4. Section A carries **forty (40)** marks and section B carries **sixty (60)** marks.
5. Cellular phones and unauthorized materials are **not allowed** in the examination room.
6. Non-Programmable calculators may be used.
7. Write your **Examination Number** on every page of your answer booklet(s).

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SECTION A (40 Marks)

Answer **all** questions in this section

1. With suitable examples, distinguish between criterion-referenced measurement and norm-referenced measurement.
2. Explain the following concepts:
 - a) Reliability
 - b) Validity
3. (a) Define formative assessment
(b) Give three advantages of using formative assessment in teaching and learning.
4. (a) State two types of observation used in educational research
(b) Explain three advantages of using observation in classroom studies.
5. (a) Briefly describe two measures of central tendency
(b) Give two reasons for using measures of central tendency in education.
6. Identify four purposes of administering standardized tests in schools.
7. Briefly explain four disadvantages of using oral examinations in assessing students' achievement.
8. Briefly explain four benefits of using performance-based assessment in education.
9. State and explain four principles of test construction.
10. Distinguish between:
 - (a) Reliability and validity
 - (b) Formative assessment and summative assessment

SECTION B (30 Marks)

Answer **two (2)** questions from this section

11. The following are the scores of 8 students in Mathematics and Physics:

Student	Math	Physics
A	78	75
B	65	60
C	82	85
D	55	58
E	90	88
F	70	72
G	60	62
H	85	80

(a) Calculate the Pearson's correlation coefficient for the scores.

(b) Comment on the relationship between students' performance in Mathematics and Physics.

12. Discuss five factors that can reduce the reliability of a test.

13. Analyze five challenges that face the process of educational evaluation in Tanzania.

SECTION C (30 Marks)

Answer **two (2)** questions from this section

14. Explain five measures that can be taken to improve the validity of national examinations.

15. Evaluate five contributions of educational measurement to curriculum improvement.

16. Identify and explain five characteristics of a good scoring rubric.