

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

762

**EDUCATIONAL RESEARCH, MEASUREMENT AND
EVALUATION**

Time: 3 Hours.

Tuesday, 14th February 2006 a.m

Instructions

1. This paper consists of sections A, B and C.
2. Answer **all** questions in sections A, **two (2)** questions from section B and **one (1)** question from section C.
3. Question **11** is **compulsory**.
4. Section A carries 36 marks, section B carries 40 marks and section C carries 24 marks
5. Cellular phones and unauthorized materials are **not allowed** in the examination room.
6. Write your **Examination Number** on every page of your answer booklet(s).

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SECTION A (36 marks)

Answer **all** questions in this section.

1. Define the term educational measurement.
2. Mention four characteristics of a good research problem.
3. State four objectives of educational evaluation.
4. Give four reasons for pre-testing research instruments.
5. List three advantages of using questionnaires in data collection.
6. State four importance of hypothesis in research.
7. Mention four principles of constructing test items.
8. Briefly explain four functions of the table of specifications in test construction.
9. Give two advantages of using median over mean in data analysis.

SECTION B (40 marks)

Answer two questions from this section. Question 11 is **compulsory**.

10. (a) What is validity in testing?
(b) State four types of validity with brief explanations.
11. (a) Differentiate between norm-referenced and criterion-referenced tests.
(b) The following are test scores for 8 students: 20, 25, 30, 35, 25, 40, 30, 20. Calculate:
(i) Range
(ii) Mean (nearest whole number)
(iii) Standard deviation (nearest whole number)
(c) Convert the highest and lowest scores to z-scores.
12. Outline four steps in formulating research objectives.
13. Discuss four advantages and four disadvantages of multiple-choice test items.

SECTION C (24 marks)

Answer one question from this section.

14. (a) State four characteristics of reliable tests.
(b) Explain four methods of estimating test reliability.
15. Discuss the first five components of a research report.
16. Explain four roles of assessment in the teaching and learning process.