

**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, 13<sup>rd</sup> February 2007 a.m**

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**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 research.
2. Mention four characteristics of a good hypothesis in research.
3. State four purposes of a research proposal.
4. Give four functions of a research instrument try-out.
5. List three advantages of using interviews for data collection.
6. Give four reasons for conducting a literature review.
7. Mention four qualities of a good test item.
8. Briefly explain four levels of Bloom's taxonomy of educational objectives.
9. Give two advantages of using standard deviation as a measure of variability.

### SECTION B (40 marks)

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

10. (a) What are instructional objectives?  
(b) State four characteristics of instructional objectives.
11. (a) Differentiate measures of central tendency from measures of dispersion.  
(b) The following are Mathematics scores for 10 students: 50, 80, 45, 70, 60, 85, 65, 55, 68, 50.  
Calculate:
  - (i) Range
  - (ii) Mean (nearest whole number)
  - (iii) Standard deviation (nearest whole number)  
(c) Standardize the highest and lowest scores using a mean of 50 and a standard deviation of 10.
12. Outline four steps in writing a research report.

13. Discuss four limitations of true-false test items and give four suggestions for constructing good ones.

**SECTION C (24 marks)**

Answer one question from this section.

14. (a) State four characteristics of standardized tests.  
(b) Give four criteria for standardized tests to function effectively.
15. Discuss the first five elements of a research proposal.
16. Explain four ways a literature review is useful in educational research.