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

762

EDUCATIONAL RESEARCH, MEASUREMENT AND EVALUATION

Time: 3 Hours

Tuesday 12<sup>th</sup> February 2008 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 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 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.

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### SECTION A (36 marks)

Answer **all** questions in this section.

- 91 1. Define the term research.
- 88 2. Mention **four (4)** characteristics of a good hypothesis of a research.
- 104 3. Why is a research proposal important?
- ④ 4. State **four (4)** functions of a research instrument try-out.
- 82 ⑤ 5. Enumerate **three (3)** advantages of using an interview as a method of data collection. *L provide depth data, L high response rate, L flexible to a*
6. List down **four (4)** reasons of doing literature review.
7. Mention **four (4)** qualities of a test item.
- ⑧ 8. Mention and explain briefly **four (4)** levels of Bloom's Taxonomy of Educational Objectives. *KIRASSE*
- ⑨ 9. Give **two (2)** advantages of using standard deviation as a measure of variability.

### SECTION B (40 marks)

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

- ⑩ (a) What are instructional objectives? *statement of intention to change or alter behavior of individual*
- (b) Explain briefly the characteristics of instructional objectives. *SMART*
11. (a) Differentiate measures of central tendency from measures of dispersion.
- (b) The following are the results of a Mathematics test for 10 students: 50, 80, 45, 70, 60, 85, 65, 55, 68, 50.  
Calculate the:  
(i) Range.  
(ii) Mean – (Nearest whole number).  
(iii) Standard deviation to the nearest number.
- (c) Standardize the highest score and the lowest score using the mean of the ministry and the standard deviation of 10.



12. Discuss **four (4)** steps of writing a research report. *(1) Preliminary report (2) Body of report (3) References (4) Appendices*
13. True – false test items have been criticized for their inability to measure higher levels of the cognitive domain.
- (a) Discuss the limitations of true-false test items.
- (b) Give **four (4)** suggestions on how to construct good true-false test items.

### SECTION C (24 marks)

Answer **one (1)** question from this section.

14. Briefly discuss the
- (a) characteristics of standardized tests.
- (b) criteria for standardized tests to function appropriately.
15. Discuss the first **five (5)** elements of a research proposal. *1. Title, selection, sample, introduction, literature review, methodology*
16. “A researcher believes that a thorough review of written material in the proposed topic of study is essential if the researcher is to design a relevant, original, useful and timely research study.” Discuss how the review of literature is useful at various stages of research.