

THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
DIPLOMA IN SECONDARY EDUCATION EXAMINATION
762 EDUCATIONAL RESEARCH, MEASUREMENT AND EVALUATION
Time: 3 Hours **Year: 2023**

Instructions

1. This paper consists of sections **A** and **B** with a total of **fourteen (14)** questions.
2. Answer **all** questions.
3. Question **11** is **Compulsory**
4. Section **A** carries **forty (40)** marks , and section **B** carry **sixty (60)** marks.
5. Cellular phones and any 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)

SECTION A (40 Marks)

Answer **all** questions in this section

1. Explain four usefulness of item analysis in teaching and learning process.
2. Identify the reasons for conducting an educational research in secondary schools.
3. Classify forms of evaluation in education.
4. Briefly analyse the four major criteria to be used in reviewing the quality of a research report.
5. Distinguish measurement from evaluation by using two points.
6. Provide two points that validate a good test.
7. Differentiate between qualitative and quantitative approaches by giving four points.
8. Identify the advantages and disadvantages of objective test in assessment.
9. Identify reasons of using observation method in collecting information for investigation.
10. Explain four applications of cyclic type of research.

SECTION B (60 Marks)

Answer **all** questions from this section

11. A Biology teacher obtained the following results from students' weekly test. Study carefully the data in the table given and answer the questions that follow.

Students' name	A	B	C	D	E	F	G	H	I	J
Students' score	20	5	13	7	18	4	12	10	17	14

- (a) Determine mean and standard deviation.
- (b) If the teacher standardizes the scores by adding 10 marks to every score, how can you estimate the new mean, standard deviation and the range?
- (c) Comment on the mean, standard deviation and the range obtained in part (b).

12. Explain five issues to consider when planning for an action research.
13. Use criterion-referenced measurement to evaluate the achievement of learning by giving six points.
14. Analyse six key areas that should be assessed during the process of teaching and learning.