

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: 2021**

Instructions

1. This paper consists of sections **A**, **B** and **C** with a total of **sixteen (16)** questions.
2. Answer **all** questions in section **A**, and **two (2)** questions from each of the sections **B** and **C**.
3. Question **11** is **COMPULSORY**
4. Section **A** carries **forty (40)** marks , and sections **B** and **C** carry **thirty (30)** marks each.
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. (a) Describe extended response items as used in educational measurement and evaluation,
(b) Describe restricted response items as used in educational measurement and evaluation.
2. (a) Define taxonomy of educational objectives as used in educational measurement and evaluation,
(b) Explain three domains of instructional objectives as proposed by Benjamin Bloom.
3. Identify four physical environmental factors that can affect an individual's performance.
4. Explain the given concepts as used in assessing student's achievement in education.
 - (a) Rating scales
 - (b) Checklist
 - (c) Socio-metric
 - (d) Attitude test
 - (e) Guess who techniques and
 - (f) Anecdotal record.
5. Examine four characteristics of an action research.
6. Explain the following concepts as used in educational research:
 - (a) Longitudinal study
 - (b) Cross-sectional study
 - (c) Type I error and
 - (d) Type II error
7. Examine four qualities of a good evaluation in teaching and learning process.
8. Give four strategies that examiners may use to control cheating in examinations.
9. Outline eight sources of literature review in research.

10. Examine four factors to be considered by a teacher to ensure objectivity in scoring essay items.

SECTION B (30 Marks)

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

11. Study the frequency distribution table representing English Language test results for 100 students from a certain Secondary School.

Table 1

Scores	0-10	11-21	22-32	33-43	44-54	55-65	66-76	77-87	88-98
Frequency	2	8	10	12	18	20	15	10	5

From the table 1, compute the following:

- The mean score of the distribution.
- The class interval size for the distribution.
- The highest and lowest score in the distribution.
- The modal class interval of the distribution.
- The variance of the distribution.

12. Study the results obtained from 40 students taken as a sample for item X analysis

Item X	Possible Responses and Choice	Total					TOTAL
	Omit	A	B	C	D	E	
High Achievers	2	11	5	1	1	0	20
Low Achievers	0	12	2	2	4	0	20
Total	2	23	7	3	5	0	40

Compute:

- (a) (i) the item difficult index and
(ii) the discrimination index.
- b) State the level of difficult of the item and to give the two reasons on the
(a) (i) and (ii) computation results

13. By using examples from own experience, explain five roles of measurement in education.

SECTION C (30 Marks)

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

- 14. Identify five characteristics which qualify educational research as a scientific process.
- 15. Evaluate three strengths and two weaknesses of using multiple choice questions in assessing students' achievement.
- 16. Examine five factors that affect test reliability.