MATHEMATICS

1.0 INTRODUCTION

This examination format is designed to guide examiners on how to set examination items. The format covers standard V, VI and VII topics from the 2022 syllabus which are competency - based. The general objectives, competencies and examination contents are in accordance with current Mathematics syllabus issued by the Ministry of Education and Vocational Training (MoEVT) Zanzibar in 2022.

2.0 GENERAL SUBJECT LEARNING OUTCOMES

This curriculum is competency - based. Therefore, after studying Mathematics up to standard VII, the pupils shall demonstrate the ability to:

2.1 Read, write, count and solve numerical problems.

2.2 Apply mathematical operations in daily life e.g using numeracy skills to make financial decisions, using mathematics to measure and weigh objects using metric measurement.

2.3 Apply mathematical skills in solving more complex everyday problems e.g., keep financial records, manage money and understand how government collect and uses money to provide for the needs of the community.

3.0 GENERAL OBJECTIVES

Mathematic subject is taught in primary schools in order to enable the pupils to:

3.1 Acquire skills of writing numbers correctly and applying them in mathematical operation.

3.2 Determine factors and multiples of different numbers.

3.3 Develop skills of applying arithmetic operations to solve problems related to fractions.

3.4 Use arithmetic operations to solve problems with decimals numbers.

3.5 Acquire skills of using mathematical instruments to draw and construct different figures and angles.

3.6 Solve problems concerning measuring length, mass and time.

3.7 Construct algebraic expressions and solve algebraic problems.

3.8 Calculate percentage gain and percentage loss in mathematical problems.

3.9 Develop skills of solving problems concerning areas and perimeters of regular bodies.

3.10 Acquire skills of constructing and using calendar.

3.11 Solve problems concerning measuring volume (capacity) of liquid using different instruments.

3.12 Solve problems involving square and cube roots.

3.13 Solve problems involving simple interest.

3.14 Acquire skills of drawing and interpreting tables, charts and graphs.

3.15 Solve mathematical problems involving numbers.

3.16 Generate knowledge about the concept of proportions and solve related problems.

3.17 Locate points and construct polygons on x-y plane.

3.18 Solve problems concerning with are and volume of regular polygons.

3.19 Solve problems involving equations.

3.20 Change local currency into foreign currencies and vice versa.

3.21 Draw and interpret frequency tables and statistical graphs.

4.0 EXAMINATION RUBRIC

There will be one paper of two hours and thirty minutes **(2:30)** duration. For students with special needs, the assessment duration will be three **(3:00)** hours. The paper will consist of two (2) sections **A** and **B** which contains sixteen (16) questions. The candidates will be required to answer all questions in section **A** and choose any four (4) questions out of six (6) in section **B**. The paper will carry 100 marks.

4.1 Section **A** will comprise ten (10) short answer questions; each question will carry six (6) marks. This section will carry sixty (60) marks.

4.2 Section **B** will comprise six (6) long answer questions. The candidates will be required to answer four (4) questions; each question will carry ten (10) marks. This section will carry forty (40) marks.

5.0 EXAMINATION CONTENT

5.1 Numbers (whole Numbers)
5.2 Numbers (Types of whole numbers)
5.3 Operations of numbers (addition of numbers from 1 to 1,000,000)
5.4 Operations of numbers (addition of numbers from 1 to 10,000,000)
5.5 Factors and Multiples
5.6 Fraction
5.7 Decimals (operations of decimals and conversion)
5.8 Decimals (Mixed operations)
5.9 Bases.
5.10 Geometry (Geometrical instruments and angles)
5.11 Geometry (Parallel and intersecting lines)
5.12 Geometry (Triangles and Quadrilateral)
5.13 Circumference and area of a Circle
5.14 Perimeters and Areas (rectangle and square)
5.15 Perimeters and Areas (Triangles and regular polygons)
5.16 Volume
5.17 Calendar
5.18 Simple interest
5.19 Currency
5.20 Profit and Loss
5.21 Algebra (Algebraic expressions)
5.22 Algebra (Algebraic equations and word problems)
5.23 Metric Units
5.24 Ratio and Proportion
5.25 Coordinates of points
5.26 Statistics (Average and Picture graph)
5.27 Statistics (frequency tables and histogram)
5.28 Exponents and Radicals

6.0 TABLE OF SPECIFICATION

S/N	Topic	Remembering	Understanding	Applying	Analysing	Evaluating	Creating	Number of Items Per Topic	Percentage Weight Per Topic
1	NUMBERS								5.7
2	OPERATIONS								7.8
3	GEOMETRY								5.3
4	FACTORS								1.9
5	EXPONENTS AND RADICALS								4.3
6	DECIMALS								4.3
7	ALGEBRA								4.3
8	BASES								6.2
9	RATIOS AND PROPORTIONALS								5.8
10	VOLUME								7.8
11	METRIC								3.9
12	SIMPLE INTEREST								4.5
13	CALENDARS								3.9
14	FRACTIONS								5.8
15	STATISTICS								8.2
16	PROFIT AND LOSS								3.9
17	PERIMETER AND AREA								4.3
18	CIRCUMFERENCE AND AREA OF A CIRCLE								4.1
19	CURRENCY								3.9
20	COORDINATE OF POINTS								4.1
TOTAL								36	100