## UCE MTCS 456/1 Format.

Section A will comprise of two items and section B comprises of Part I and Part II each having two questions and a learner answers one question from part

Item	Area of construct	Topics covered
	SE	CTION A: compulsory
Item one	Numbers	✓ Number bases
		✓ Working with integers
		✓ Fractions, percentages and decimals
		✓ Numerical concept 1 and 2
		✓ Ratios and proportions
Item Two	Patterns and	✓ Sequences and patterns
	algebra	✓ Equations of line and curves
		✓ Algebra 1 and 2
		✓ Mapping and relations
		✓ Inequalities and regions
		✓ Equation of a straight line
		✓ Rectangular Cartesian plane
		✓ Simultaneous equations
		✓ Linear programming
		✓ Loci
	!÷	SECTION B
	PART	I (choose one question)
Item 3 and 4	DATA AND PROBABILITY	✓ Data collection and presentation
		✓ Graphs
		✓ Set theory
		✓ Data collection and display
		✓ Matrices
		✓ Probability
	PART	II (choose one question)
Items 5 and 6	GEOMETRY	✓ Geometrical construction
	AND MEASURES	✓ Bearings
		✓ General and angle properties of
		geometric figures  Reflection
		✓ Reflection  ✓ Business arithmetic
		✓ Time and tables
		✓ Similarities and enlargement
		✓ Circle
		✓ Rotation

<ul> <li>Length and area properties of two dimensional geometrical figures</li> </ul>
<ul> <li>Nets, areas and volumes of solids</li> </ul>
✓ Trigonometry 1 and 2
✓ Vectors
✓ Business mathematics
✓ Matrix transformation
✓ Circle properties
✓ Lines and planes in three dimensions