

External Assessment 2021

MATHEMATICS SPECIALISED

MTS415118

Pages	16
Questions	30
Information Sheet	1
Answer Booklets	5

Reading time: 15 minutes – you may begin writing during this time

Suggested working time: 3 hours

Instructions

- There are **five (5)** sections to this exam paper.
- Attempt **all questions** and **all parts** within each question.
 - You must show the methods you used to solve questions to receive full marks.
- Answer each section in a **separate answer booklet**.
- Approved calculators and all their functions may be used.
- All answers must be written in **English**.
- You **must** make sure your answers address:
 - Criterion 4 solve problems and use techniques involving finite and infinite sequences and series.
 - Criterion 5 solve problems and use techniques involving matrices and linear algebra.
 - Criterion 6 use differential calculus and apply integral calculus to areas and volumes.
 - Criterion 7 use techniques of integration and solve differential equations.
 - Criterion 8 solve problems and use techniques involving complex numbers.

Guide to Exam Structure

		Questions available	How many questions to answer	Suggested working time	Marks available
Section	A	6	6	36 minutes	36
Section	B	6	6	36 minutes	36
Section	C	6	6	36 minutes	36
Section	D	6	6	36 minutes	36
Section	E	6	6	36 minutes	36
	Total	30	30	180 minutes (3 hours)	180