

External Assessment 2024

GENERAL MATHEMATICS

MTG315123

Section **A** Mathematical and Statistical Models

Pages: 12

Questions: 6

Information Sheet: 1

Preparation time for this exam: 15 minutes

Suggested working time: 36 minutes

Instructions:

- Answer **all** questions and **all** items within each question.
- Write your answers in the spaces provided in this exam paper.
 - Spare diagrams have been provided at the end of each section. Indicate using the box provided if you have used the spare diagram.
- TASC approved calculators are allowed.
- The exam is **three (3) hours** in length. The suggested working time for this section is **approximately 36 minutes**.
- The General Mathematics Information Sheet can be used throughout the exam.
- All answers must be written in **English**.
- You **must** make sure your answers address the listed criterion.

Marker use	
C3	/ 36

Guide to Exam Structure

	Parts	Questions available	Questions to answer	Suggested working time	Marks available
Section A		6	6	36 minutes	36 marks
Section B		6	6	36 minutes	36 marks
Section C		6	6	36 minutes	36 marks
Section D		6	6	36 minutes	36 marks
Section E	Part 1	6	6	36 minutes	36 marks
	OR				
	Part 2	6	6	36 minutes	36 marks
Totals		36	30	180 minutes (3 hours)	180 marks

Criterion

You **must** make sure your answers address:

- Criterion 3 Apply mathematical and statistical models to investigate, represent and analyse real world situations and solve problems.

Attach your candidate label here

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Section **B** Bivariate Data Analysis

Pages: 12

Questions: 6

Information Sheet: 1

Suggested working time: 36 minutes

Instructions:

- Answer **all** questions and **all** items within each question.
- Write your answers in the spaces provided in this exam paper.
 - Spare diagrams have been provided at the end of each section. Indicate using the box provided if you have used the spare diagram.
- TASC approved calculators are allowed.
- The exam is **three (3) hours** in length. The suggested working time for this section is **approximately 36 minutes**.
- The General Mathematics Information Sheet can be used throughout the exam.
- All answers must be written in **English**.
- You **must** make sure your answers address the listed criterion.

Marker use	
C5	/ 36

Guide to Exam Structure

	Parts	Questions available	Questions to answer	Suggested working time	Marks available
Section A		6	6	36 minutes	36 marks
Section B		6	6	36 minutes	36 marks
Section C		6	6	36 minutes	36 marks
Section D		6	6	36 minutes	36 marks
Section E	Part 1	6	6	36 minutes	36 marks
	OR				
	Part 2	6	6	36 minutes	36 marks
Totals		36	30	180 minutes (3 hours)	180 marks

Criterion

You **must** make sure your answers address:

- Criterion 5 interpret concepts and apply mathematical techniques to solve problems involving bivariate data analysis and time series analysis using the statistical investigation process.

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Section **C** Growth and Decay in Sequences

Pages: 12

Questions: 6

Information Sheets: 1

Suggested working time: 36 minutes

Instructions:

- Answer **all** questions and **all** items within each question.
- Write your answers in the spaces provided in this exam paper.
 - Spare diagrams have been provided at the end of each section. Indicate using the box provided if you have used the spare diagram.
- TASC approved calculators are allowed.
- The exam is **three (3) hours** in length. The suggested working time for this section is **approximately 36 minutes**.
- The General Mathematics Information Sheet can be used throughout the exam.
- All answers must be written in **English**.
- You **must** make sure your answers address the listed criterion.

Marker use	
C6	/ 36

Guide to Exam Structure

	Parts	Questions available	Questions to answer	Suggested working time	Marks available
Section A		6	6	36 minutes	36 marks
Section B		6	6	36 minutes	36 marks
Section C		6	6	36 minutes	36 marks
Section D		6	6	36 minutes	36 marks
Section E	Part 1	6	6	36 minutes	36 marks
	OR				
	Part 2	6	6	36 minutes	36 marks
Totals		36	30	180 minutes (3 hours)	180 marks

Criterion

You **must** make sure your answers address:

- Criterion 6 interpret concepts and apply mathematical techniques to model patterns and solve problems involving growth and decay in sequences.

Attach your candidate label here

GENERAL MATHEMATICS

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Section **D** Finance

Pages: 12

Questions: 6

Information Sheet: 1

Suggested working time: 36 minutes

Instructions:

- Answer **all** questions and **all** items within each question.
- Write your answers in the spaces provided in this exam paper.
 - Spare diagrams have been provided at the end of each section. Indicate using the box provided if you have used the spare diagram.
- TASC approved calculators are allowed.
- The exam is **three (3) hours** in length. The suggested working time for this section is **approximately 36 minutes**.
- The General Mathematics Information Sheet can be used throughout the exam.
- All answers must be written in **English**.
- You **must** make sure your answers address the listed criterion.

Marker use	
C7	/ 36

Guide to Exam Structure

	Parts	Questions available	Questions to answer	Suggested working time	Marks available
Section A		6	6	36 minutes	36 marks
Section B		6	6	36 minutes	36 marks
Section C		6	6	36 minutes	36 marks
Section D		6	6	36 minutes	36 marks
Section E	Part 1 OR	6	6	36 minutes	36 marks
	Part 2	6	6	36 minutes	36 marks
Totals		36	30	180 minutes (3 hours)	180 marks

Criterion

You **must** make sure your answers address:

- Criterion 7 interpret concepts and apply mathematical techniques to solve problems involving standard financial models.

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Section **E** Networks or Trigonometry

Pages: 24

Questions: 12

Information Sheet: 1

Suggested working time: 36 minutes

Instructions:

- There are **two (2)** parts to this section. Answer **all** questions in **one (1)** part. Either:
 - **Part 1** – networks and decision mathematics

OR

 - **Part 2** – trigonometry and Earth geometry – Part 2 commences on page 14.
- Write your answers in the spaces provided in this exam paper.
 - Spare diagrams have been provided at the end of each section. Indicate using the box provided if you have used the spare diagram.
- TASC approved calculators are allowed.
- The exam is **three (3) hours** in length. The suggested working time for this section is **approximately 36 minutes**.
- The General Mathematics Information Sheet can be used throughout the exam.
- All answers must be written in **English**.
- You **must** make sure your answers address the listed criterion.

Marker use	
C8	/ 36

Guide to Exam Structure

		Parts	Questions available	Questions to answer	Suggested working time	Marks available
Section	A		6	6	36 minutes	36 marks
Section	B		6	6	36 minutes	36 marks
Section	C		6	6	36 minutes	36 marks
Section	D		6	6	36 minutes	36 marks
Section	E	Part 1	6	6	36 minutes	36 marks
		OR				
		Part 2	6	6	36 minutes	36 marks
Totals			36	30	180 minutes (3 hours)	180 marks

Criterion

You **must** make sure your answers address:

- Criterion 8 interpret concepts and apply mathematical techniques to represent, analyse and solve practical problems in the two-dimensional plane.



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