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External Assessment 2021

GENERAL MATHEMATICS

MTG315120

Part **1** Bivariate Data Analysis

Pages	12
Questions	4
Information Sheet	1

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

Suggested working time: 36 minutes

Instructions

- Attempt **all questions** and **all parts** within each question.
 - For questions worth **two (2)** or more marks you must show your workings, logical argument and mathematical detail to gain full marks.
- Write your answers in the spaces provided in this question booklet.
 - Spare diagrams have been provided at the end of each section. Indicate in the box provided if you have used the spare diagram.
- TASC approved calculators are allowed
- All answers must be written in **English**.
- You **must** make sure your answers address:
 - Criterion 4 interpret concepts, explore and apply methods of bivariate data analysis and time series analysis using the statistical investigation process.

Marker use	
C4	36

Guide to Exam Structure

	Questions available	How many questions to answer	Suggested working time	Marks available
Part 1	4	4	36 minutes	36
Part 2	4	4	36 minutes	36
Part 3	4	4	36 minutes	36
Part 4	5	5	36 minutes	36
Part 5	4	4	36 minutes	36
Total	21	21	180 minutes (3 hours)	180



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Part **2** Growth and Decay in Sequences

Pages	12
Questions	4
Information Sheet	1

Suggested working time: 36 minutes

Instructions

- Attempt **all questions** and **all parts** within each question.
 - For questions worth **two (2)** or more marks you must show your workings, logical argument and mathematical detail to gain full marks.
- Write your answers in the spaces provided in this question booklet.
 - Spare diagrams have been provided at the end of each section. Indicate in the box provided if you have used the spare diagram.
- TASC approved calculators are allowed
- All answers must be written in **English**.
- You **must** make sure your answers address:
 - Criterion 5 interpret concepts and perform calculations to model and investigate patterns of growth and decay in discrete situations.

Marker use	
C5	36

Guide to Exam Structure

	Questions available	How many questions to answer	Suggested working time	Marks available
Part 1	4	4	36 minutes	36
Part 2	4	4	36 minutes	36
Part 3	4	4	36 minutes	36
Part 4	5	5	36 minutes	36
Part 5	4	4	36 minutes	36
Total	21	21	180 minutes (3 hours)	180



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Part **3** Finance

Pages	12
Questions	4
Information Sheet	1

Suggested working time: 36 minutes

Instructions

- Attempt **all questions** and **all parts** within each question.
 - For questions worth **two (2)** or more marks you must show your workings, logical argument and mathematical detail to gain full marks.
- Write your answers in the spaces provided in this question booklet.
 - Spare diagrams have been provided at the end of each section. Indicate in the box provided if you have used the spare diagram.
- TASC approved calculators are allowed
- All answers must be in **English**.
- You **must** make sure your answers address:
 - Criterion 6 interpret concepts and perform calculations to solve problems involving standard financial models.

Marker use	
C6	36

Guide to Exam Structure

	Questions available	How many questions to answer	Suggested working time	Marks available
Part 1	4	4	36 minutes	36
Part 2	4	4	36 minutes	36
Part 3	4	4	36 minutes	36
Part 4	5	5	36 minutes	36
Part 5	4	4	36 minutes	36
Total	21	21	180 minutes (3 hours)	180



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Part 4 Trigonometry

Pages	12
Questions	5
Information Sheet	1

Suggested working time: 36 minutes

Instructions

- Attempt **all questions** and **all parts** within each question.
 - For questions worth **two (2)** or more marks you must show your workings, logical argument and mathematical detail to gain full marks.
- Write your answers in the spaces provided in this question booklet.
 - Spare diagrams have been provided at the end of each section. Indicate in the box provided if you have used the spare diagram.
- TASC approved calculators are allowed
- All answers must be in **English**.
- You **must** make sure your answers address:
 - Criterion 7 interpret concepts and perform calculations to solve problems involving applications of trigonometry.

Marker use	
C7	36

Guide to Exam Structure

	Questions available	How many questions to answer	Suggested working time	Marks available
Part 1	4	4	36 minutes	36
Part 2	4	4	36 minutes	36
Part 3	4	4	36 minutes	36
Part 4	5	5	36 minutes	36
Part 5	4	4	36 minutes	36
Total	21	21	180 minutes (3 hours)	180



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Part **5** Networks

Pages	12
Questions	4
Information Sheet	1

Suggested working time: 36 minutes

Instructions

- Attempt **all questions** and **all parts** within each question.
 - For questions worth **two (2)** or more marks you must show your workings, logical argument and mathematical detail to gain full marks.
- Write your answers in the spaces provided in this question booklet.
 - Spare diagrams have been provided at the end of each section. Indicate in the box provided if you have used the spare diagram.
- TASC approved calculators are allowed
- All answers must be in **English**.
- You **must** make sure your answers address:
 - Criterion 8 interpret language and concepts of graphs and networks in order to model and analyse practical situations aiding mathematical decision making.

Marker use	
C8	36

Guide to Exam Structure

	Questions available	How many questions to answer	Suggested working time	Marks available
Part 1	4	4	36 minutes	36
Part 2	4	4	36 minutes	36
Part 3	4	4	36 minutes	36
Part 4	5	5	36 minutes	36
Part 5	4	4	36 minutes	36
Total	21	21	180 minutes (3 hours)	180