Directions
Do not write in this book during perusal time.
You must:
  • start your response to each question on a new page
  • cross out any draft work that is not to be assessed
  • show intermediate results indicating the accurate and appropriate
    use of mathematical terms and symbols
  • show sufficient working to justify your responses.

After the examination session
The supervisor will collect this book when you leave.

Candidate use
Print your candidate number here
1 0 – –

Attach barcode here

Number of books used

Supervisor use only
Supervisor’s initials

QSA use only
Marker number

Marker use only

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<th>Criterion</th>
<th>Standard awarded</th>
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<td>Communication and justification</td>
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<tr>
<td>Knowledge and procedures</td>
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<tr>
<td>Modelling and problem solving</td>
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</table>

Modelling and problem solving
Complexity/initiative increasing

<table>
<thead>
<tr>
<th>Question</th>
<th>MC</th>
<th>Q2c (ii)</th>
<th>Q1c (ii)</th>
<th>Q4a (iii)</th>
<th>Q5a</th>
<th>Q3c</th>
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<td>Result</td>
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Question

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Question
Question 2c (i)
A spare chart for Question 3b (if required) is on page 26.

This chart is not to be used for navigation purposes.
Question 3c

A spare chart for Question 3c (if required) is on page 27.

This chart is not to be used for navigation purposes.

Mean variation increasing
9°05′ E (1989)
06′ annually

Point Marlin
Port Nelson
Snapper Heads
Question 4a

![Graph with nodes and edges labeled with distances]

- Start: A (3)
- B (7)
- F (9)
- G (6)
- H (12)
- J (10)
- K (12)
- L (25)
- Finish

Nodes: A, F, G, J, K, L

Edges: A-B(7), B-F(9), F-G, G-J, J-K(12)
Question 4b
### Question 4c (i)

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<td>—</td>
<td>0</td>
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<td>A</td>
<td>D</td>
<td>3</td>
<td>B, C, D</td>
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<tr>
<td>3</td>
<td>B</td>
<td>—</td>
<td>2</td>
<td>C, D</td>
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<tr>
<td>4</td>
<td>B</td>
<td>E</td>
<td>3</td>
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<tr>
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<td>C</td>
<td>—</td>
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<td>C</td>
<td>F</td>
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<td>D</td>
<td>—</td>
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<td>10</td>
<td>E</td>
<td>I, J, K</td>
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This chart is not to be used for navigation purposes.
Spare chart for Question 3c (if required)

This chart is not to be used for navigation purposes.