Total 26 questions [100 Marks]

Answers should be written on the question sheet in the spaces provided and you are encouraged to show your working. You should attempt as many questions as you can. Please write your candidate number on every page you use.

Please only use a black pen, pencils are not allowed.

Answers should be given exactly and in simplest terms unless indicated otherwise. Indicate multiple-choice answers by circling the best answer. Partial credit is available for correct workings in multiple choice questions.

The numbers in the margin indicate the marks expected to be assigned to each question. You are advised to divide your time according to the marks available.

Candidates must NOT bring their own calculators, of any description, into the exam.

A scientific calculator is available for you to use on the test platform, by clicking this icon in the top-right corner of the screen:

No tables or formula sheets may be used.
Question 1:  

Circle the correct answer

| A | B | C | D | E |

Show any working here:
Question 2: [2]

Circle the correct answer

| A | B | C | D | E |

Show any working here:
Question 3: [2]

Circle the correct answer

| A | B | C | D | E |

Show any working here:
Question 4: [2]

Circle the correct answer

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
</tr>
</tbody>
</table>

Show any working here:
Question 5: [2]

Circle the correct answer

| A | B | C | D | E |

Show any working here:
Question 6: [2]

Circle the correct answer

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
</table>

Show any working here:
Question 7: [2]

Circle the correct answer

| A | B | C | D | E |

Show any working here:
**Question 8:**

Circle the correct answer

<p>| | | | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
</tr>
</tbody>
</table>

Show any working here:
Question 9:  

Circle the correct answer

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
</table>

Show any working here:
Question 10:

Circle the correct answer

| A | B | C | D | E |

Show any working here:
Question 11:

Circle the correct answer

| A | B | C | D | E |

Show any working here:
Question 12: 
Circle the correct answer

| A | B | C | D | E |

Show any working here:
Question 13:

Show your working here:
Question 14:

Show your working here:
Question 15:

Show your working here:
This page has been intentionally left blank for working (for Question 15).
Question 16:  

Show your working here:
Question 17: (a) (b)

Show your working here:
Question 18:

Show your working here:
This page has been intentionally left blank for working (for Question 18).
Question 19: [3]

Show your working here:
Question 20:  
[4]

Show your working here:
Question 21: [5]

Show your working here:
Question 22:

Show your working here:
This page has been intentionally left blank for working (for Question 22).
Question 23: (a) (b) (c) 

Show your working here:
This page has been intentionally left blank for working (for Question 23).
Question 24: (a) (b) (c) \([1, 1, 3]\]

Show your working here:
This page has been intentionally left blank for working (for Question 24).
Question 25:

Show your working here:
Question 26: (a) (b) (c) (d) (e)

[1, 1, 1, 2, 2]

Show your working here:
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Any working out here must have the question number clearly indicated and its presence here should be indicated on the corresponding main question page, otherwise it may not be marked.

END OF THE TEST