Oxford Revise | OCR Computer Science | Answers

Chapter 5 Electronic memory

Question	Answer	Extra information	Marks	AO / Specification reference
1 (a)	**One** from: RAM is volatile; ROM is permanent (not volatile) RAM can be read from and written to; ROM can only be read from RAM is high capacity; ROM is low capacity	This question asks for **one** difference between RAM and ROM, so don't give more than one difference, but include **both** RAM and ROM in your answer.	1	AO1 1.2.1
1 (b)	RAM holds data and instructions currently in use ROM holds start-up instructions	1 mark for a use of RAM and 1 mark for a use of ROM.	1 1	AO1 1.2.1

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<tr><th>Question</th><th>Answer</th><th>Extra information</th><th>Marks</th><th>AO / Specification reference</th></tr>
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<td>2</td>
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<table>
<tr><th>Register</th><th>Role</th></tr>
<tr><td>Accumulator</td><td>Saves the results of each calculation carried out by the ALU.</td></tr>
<tr><td>Memory address register</td><td>Holds the memory address of where data will be fetched from, or stored to.</td></tr>
<tr><td>Memory data register</td><td>Holds the data that has been fetched from memory or will be stored to RAM after being processed.</td></tr>
<tr><td>Program Counter</td><td>Holds the memory address of the next instruction to be executed.</td></tr>
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<td>1 mark for each correct answer.
The shaded parts of the table contain the text given in the question.</td>
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<td>AO1
1.1.1</td>
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