<table>
<thead>
<tr>
<th>Qn</th>
<th>Answer</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>4GB</td>
<td>1</td>
</tr>
<tr>
<td>1b</td>
<td>Storage capacity / HDD size</td>
<td>1</td>
</tr>
<tr>
<td>1c</td>
<td>Windows 7 / Operating System</td>
<td>1</td>
</tr>
</tbody>
</table>
| 2 | Keyboard - Input  
Touchscreen - Input AND Output  
USB stick - Storage  
Modem - Communication  
CPU - Processing  
Scanner - Input | 6 correct - 4 marks  
4/5 correct - 3 marks  
2/3 correct - 2 marks  
1 correct - 1 mark |
| 3a | Short term memory  
for currently running programs  
and currently used data | 1  
1  
1 (max 2) |
| 3b | **Processor**  
Faster execution of instructions  
**RAM**  
More programs/files open without having to resort to virtual memory  
**HDD**  
More virtual memory, so better able to cope with more programs running simultaneously | 1 for component  
1 for reason  
Don't allow same component twice (e.g. clock speed & cache size both mean processor)  
Max 4 |
| 3c | **Upgrade**  
Less expensive in the short term, less environmental impact as fewer parts to recycle. Upgrade might provide limited improvement  
**Replace**  
More expensive in the short term, more environmental impact as more to recycle. Replacement might provide significant improvement | Marked in bands.  
For full marks, must include:  
Full consideration.  
Clear answer/advice.  
Technical language.  
SPaG.  
Max 6 |
| 4a | Fetch instructions  
Execute instructions  
Store results | 1  
1  
1 (max 2) |
| 4b | i. More instructions executed per second  
ii. More data available for fast access  
iii. More instructions executed simultaneously | 1  
1  
1 |
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<tr>
<td>5a</td>
<td>RAM is volatile / ROM is not&lt;br&gt;RAM is (easily) rewriteable / ROM is not&lt;br&gt;RAM is for currently running programs / ROM is for startup instructions</td>
<td>1 per response Max 2</td>
</tr>
<tr>
<td>5b</td>
<td>i. Memory&lt;br&gt;ii. Acts as a <strong>buffer</strong> between main memory and CPU&lt;br&gt;iii. Using part of the HDD as an extension to RAM</td>
<td>1 1 1</td>
</tr>
<tr>
<td>6a</td>
<td>Data could be damaged, erased or corrupted&lt;br&gt;Meaning that the data (e.g. photo) could not be retrieved / would be lost permanently</td>
<td>1 for loss 1 for consequence</td>
</tr>
<tr>
<td>6b</td>
<td>i. CD/DVD/BluRay&lt;br&gt;ii. HDD, floppy disc, DAT tape&lt;br&gt;iii. USB stick, SSD, memory card</td>
<td>1 1 1</td>
</tr>
<tr>
<td>6c</td>
<td>Answers don’t necessarily have to refer to the above choices.&lt;br&gt;Consideration should include physical size, storage capacity, robustness, cost and portability.&lt;br&gt;Good answers might suggest external HDD for backup and CD-ROM for sending work to clients</td>
<td>Marked in bands. For full marks, must include: Full consideration. Clear answer/advice. Technical language. SPaG. Max 6</td>
</tr>
<tr>
<td>7</td>
<td>e.g.&lt;br&gt;• Immediately available...&lt;br&gt;• ... so the shopkeeper can start using it straightaway&lt;br&gt;• Tried and tested …&lt;br&gt;• and so less likely to have errors&lt;br&gt;• No development costs...&lt;br&gt;• ... as this has already been borne by the developer&lt;br&gt;• More support available...&lt;br&gt;• ... many other users who can provide help/third party help books, help lines or web sites available (marks in pairs)</td>
<td></td>
</tr>
<tr>
<td>8a</td>
<td>Antivirus&lt;br&gt;• Scans the computer <strong>periodically</strong>&lt;br&gt;• To check if any software has been installed which contains code that may harm the computer&lt;br&gt;• Removes/quarantines these programs / notifies the user&lt;br&gt;• Prevents these programs from being installed&lt;br&gt;• Protects the computer by preventing important files (e.g. the boot sector or operating system) from being changed</td>
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<tr>
<td>8b</td>
<td>Disk defragmenter</td>
<td></td>
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<tr>
<td>----</td>
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<td></td>
<td>- Moves (parts of) of files around so that all parts of a file are stored together (allowing files to be accessed more quickly)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Free space is collected together (allowing large files to be saved easily)</td>
<td></td>
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