

6-A-Day – Computer Science GCSE (38)

Q1	<ul style="list-style-type: none">• Using the hard disk/secondary storage• Used as RAM/to store the contents of RAM/main memory• Needed when there isn't enough physical memory	3
<p>Note that these points may be worded differently. E.g. "items are taken from memory and stored on the hard disk until needed" achieves the first two bullet points.</p>		
Q2	<p>Input device:</p> <ul style="list-style-type: none">• e.g. (touch screen, menu/next/prev page) buttons / keypad / touchpad / microphone <p>Output device:</p> <ul style="list-style-type: none">• e.g. screen, speaker	2
Q3	<ul style="list-style-type: none">• Source code not made available/ Only compiled code is published• Licence restricts the copying/modifying/distribution of the software	2
<p>The mention of a licence is not sufficient. Candidate should state that the licence restricts copying/modifying/distributing. "closed source" is not enough because it just gives an alternative term for "proprietary" without a description of what we mean by "closed"</p>		

Q4

A	b	NOT(a AND b)
0	0	1
0	1	1
1	0	1
1	1	0

1 mark for row two and three. For row 4, 1 mark for correctly identifying 1 1 as the inputs, and 1 mark for the correct output 0)

4

No follow through on row 4.

Q5

- $6 * 16 + 2 / 0110\ 0010$
- 98

2

Accept working where candidates write the least significant bit first in their binary representation (i.e. 01000110) as long as this is clear (e.g. by showing the place values)

Q6

- $62 \div 16 = 3\ r\ 14 / 62 = 0011\ 1110$
- 3E

2

Accept working where candidates write the least significant bit first in their binary representation (i.e. 01111100) as long as this is clear (e.g. by showing the place values)