

The answers on this worksheet have been taken from the 2018 OCR GCSE Computer Science Paper 2

6-A-Day – Computer Science GCSE (p2.10-2016)

Q1	<ul style="list-style-type: none"> B 5 	2	1 mark per hex digit										
Q2	<p>1 mark per bullet, max 1.</p> <ul style="list-style-type: none"> 00001101 Divides by 4 	1	Accept 001101 / 1101. Allow any number of leading zeros.										
Q3	<p>1 mark per bullet, max 2.</p> <ul style="list-style-type: none"> Left shift one place 	2	Do not accept answers that simply show the number shifted.										
Q4	<table border="1" data-bbox="233 725 815 786"> <tr> <td>a</td> <td>1100001</td> </tr> <tr> <td>e</td> <td>1100101</td> </tr> </table>	a	1100001	e	1100101	2	1 mark per row. Correct answer only. Do not allow leading zeros.						
a	1100001												
e	1100101												
Q5	<p>1 mark per bullet, max 2.</p> <ul style="list-style-type: none"> Extended ASCII uses more bits // ASCII uses fewer bits Extended ASCII can represent more characters // ASCII can represent fewer characters ... by example (e.g. extended ASCII can represent European symbols / other languages) 	2	<p>Allow numbers (e.g. ASCII has 7 bits, Ex. ASCII has 8 bits) for either bullet point but these must be realistic.</p> <p>Bullet point 1 and 2 must be a comparison (e.g. "ASCII is 7 bits" is not enough on its own).</p> <p>Do not accept answers that are technically wrong (e.g. "ASCII does not contain symbols such as ?, !, #")</p>										
Q6	<table border="1" data-bbox="280 1111 596 1312"> <thead> <tr> <th>Will loop infinitely</th> <th>Will <u>not</u> loop infinitely</th> </tr> </thead> <tbody> <tr> <td>✓</td> <td></td> </tr> <tr> <td>✓</td> <td></td> </tr> <tr> <td></td> <td>✓</td> </tr> <tr> <td></td> <td>✓</td> </tr> </tbody> </table>	Will loop infinitely	Will <u>not</u> loop infinitely	✓		✓			✓		✓	4	<p>1 mark per row.</p> <p>More than one tick in a row = 0 marks for that row.</p>
Will loop infinitely	Will <u>not</u> loop infinitely												
✓													
✓													
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