

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

6-A-Day – Computer Science GCSE (p2.1-2016)

Q1	<ul style="list-style-type: none"> The height of the wave is measured/sampled (at regular/set intervals) Turned into/stored as binary 	<p style="text-align: center;">2 (AO1 1b)</p>	<p>1 mark for each bullet, to a maximum of 2.</p>
Q2	<ul style="list-style-type: none"> The quality will improve because the sound wave is more accurate to the original The file size will increase because there are more samples to store 	<p style="text-align: center;">4 (AO1 1b)</p>	<p>1 mark for each bullet. (1 mark for identification of the effect, one mark for an explanation)</p>
Q3	<ul style="list-style-type: none"> Lossy means the decompressed file is not identical to the originalthe difference is unlikely to be noticed by humans Lossy will decrease the file size so it can be sent via e-mail 	<p style="text-align: center;">4 (AO2 1a)</p>	<p>1 mark for each bullet. (1 mark for identification of the effect, one mark for an explanation)</p>
Q4	bit , nibble, byte, MB, GB, PB	<p style="text-align: center;">1 (AO1 1b)</p>	Correct Answer Only
Q5	10111111	<p style="text-align: center;">1 (AO1 1b)</p>	Correct Answer Only
Q6	<ul style="list-style-type: none"> Working: $(3 * 16) + 14$ OR 00111110 62 	<p style="text-align: center;">2 (AO1 1b)</p>	1 mark for correct answer, 1 for valid method of working