01.1 Convert the binary number 00101110 into a decimal number.	[1 mark]
01.2 Convert the decimal number 62 into hexadecimal. You should show your working.	[2 marks]
01.3 What is the arithmetic effect of applying a left binary shift of three to a bit pattern?	[1 mark]
02 Add together the following three binary numbers and give your answer in 8 bit binary $\begin{array}{c} 01000010 \\ 00001010 \\ + \ 01001011 \end{array}$	[2 marks]
03.1 The term pixel is short for Picture Element. Define the term pixel.	[1 mark]
03.2 A 10 pixel x 10 pixel image contains five different colours. Calculate the minimum file bits, of this image when represented as a bitmap. You should show your working.	[3 marks]
04 A sampling rate of 10,000 Hz and a sample resolution of 4 bits is used to make a digit recording of a sound that lasts 50 seconds. Calculate the file size of the resulting audio fil megabytes (MB). You should show your working	